

2022 Tobacco Data Deck

**Chronic Disease Epidemiology Section
Epidemiology Branch
Center for Public Health Practice**

**Tobacco Prevention and Cessation Program
Center for Health Advancement**



Background and Purpose

Major public health initiatives, such as tobacco prevention and control programs, require a steady stream of data about at-risk populations and their specific health outcomes.

There are two approaches for providing such data:

1) through ad hoc data requests of program staff and their constituent partner organizations; or,

2) by development of a comprehensive set of charts and tables that were clearly thought out and thoroughly vetted.

The Arkansas Department of Health has embraced the second approach and initiated the Tobacco Data Deck project to provide tobacco-related health data to program staff, organizations, and the public with the specific goals of reducing the number of ad hoc data requests and reducing the risk of data errors in responding to such requests.

Suggestions for Use

Charts and graphs are in a fixed format so typos cannot be introduced. The charts and graphs can be copied for use in other presentations or reports.

Unless otherwise indicated, the error bars on the graphs represent the 95% Confidence Intervals (CI). Confidence intervals are a way to quantify the certainty and variation in the data and/or random fluctuations over time or between groups. If the error bars for the 95% confidence intervals on the graph do not overlap, then the difference is considered statistically significant at the $p < 0.05$ level of significance.

Acknowledgements

The efforts of many people are of vital importance in the production of the Arkansas Tobacco Data Deck. This includes the colleagues listed below who provided data and all the people who reviewed both in the Center for Public Health Practice and the Center for Health Advancement.

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Brief Contents

<u>Data Source Descriptions.....</u>	<u>7</u>
<u>Leading Causes of Death.....</u>	<u>22</u>
<u>Section I: Tobacco Statistics.....</u>	<u>23</u>
<u>Section II: Impact of Tobacco Use: Heart Disease and Stroke.....</u>	<u>80</u>
<u>Section III: Impact of Tobacco Use: Cancer.....</u>	<u>101</u>
<u>Section IV: Impact of Tobacco Use: Maternal and Child Health.....</u>	<u>114</u>
<u>Section V: Impact of Tobacco Use: Overweight and Obese.....</u>	<u>131</u>
<u>Section VI: Impact of Tobacco Use: Diabetes.....</u>	<u>139</u>
<u>Section VII: Demographics.....</u>	<u>148</u>

Data Sources

<u>Source</u>	<u>Latest Year of Data</u>
• American Cancer Society	2022
• Arkansas Central Cancer Registry	2019
• Arkansas Prevention Needs Assessment Survey (APNA)	2021
• Arkansas Tobacco Control (ATC)	2022
• Behavioral Risk Factor Surveillance System (BRFSS)	2020
• CDC WONDER: Cancer Incidence	2019
• CDC WONDER: Cancer Mortality	2020
• Health Statistics Branch, Arkansas Department of Health	2021
• National Cancer Institute	2022
• National Survey of Children's Health (NSCH)	2020
• Pregnancy Risk Assessment Monitoring System (PRAMS)	2020
• Substance Abuse & Mental Health Services Administration (SAMHSA)	2020
• <i>The Tax Burden on Tobacco</i> , Orzechowski & Walker	2019
• U.S. Census Bureau	2020
• Youth Risk Behavior Survey (YRBS)	2019

Data Source Descriptions

ACS

- The **American Cancer Society**, founded in 1913, is a nationwide voluntary health organization dedicated to eliminating cancer. ACS is organized into six geographical regions of both medical and lay volunteers operating in more than 250 regional offices throughout the nation.
- The ACS's activities include providing grants to researchers, identifying the link between smoking and cancer, taking around one million calls every year through the National Cancer Information Center, organizing public health advertising campaigns, and facilitating several fundraising projects every year, such as Relay for Life, the Great American Smokeout, and most recently, Gamers vs. Cancer.

ACCR

- The **Arkansas Central Cancer Registry** is a population-based registry whose goal is to collect timely and complete data on all cancer cases diagnosed in the state.
- The registry, located within the Center for Public Health Practice of the Arkansas Department of Health, is responsible for maintaining a statewide cancer incidence reporting system; monitoring data accuracy, reliability, and completeness through systematic quality assurance procedures; analyzing cancer incidence and mortality data; disseminating cancer information; and facilitating studies related to cancer prevention and control.

APNA

- The **Arkansas Prevention Needs Assessment** survey is administered annually in the fall. Participants are 6th, 8th, 10th, and 12th grade public school students in Arkansas.
- APNA is not a random sample survey, but rather strives to reach all students in these four grades.
- The survey is coordinated by the Division of Behavioral Health Services of the Arkansas Department of Human Services and the University of Arkansas at Little Rock, MidSOUTH, in conjunction with International Survey Associates.
- APNA provides policy makers and prevention workers with tools for understanding prevention needs in the areas of alcohol, tobacco, other drugs, antisocial behavior, delinquency, school dropout, and violence.

ATC

- **Arkansas Tobacco Control** regulates and enforces all laws regarding tobacco product manufacturers, wholesalers, and retailers in the State of Arkansas.
- ATC is the source of information on the number and type of tobacco permits in Arkansas. They also performs checks to monitor the compliance of tobacco retailers with laws prohibiting the sale of tobacco products to minors.

BRFSS

- The **Behavioral Risk Factor Surveillance System** is the nation's premier system of health-related telephone surveys that collect state data about U.S. residents regarding their health-related risk behaviors, chronic health conditions, and use of preventive services. BRFSS collects data in all 50 states as well as the District of Columbia and three U.S. territories.
- BRFSS covers a wide range of health behaviors including health care access; hypertension and cholesterol awareness; physical activity; and dietary consumption. Survey results are used to provide estimates of the prevalence of these risk factors as related to health status and disease. BMI and smoking questions are asked every year while hypertension, physical activity, and fruits and vegetables intake questions are asked in odd years, unless otherwise specified.

CDC WONDER

With the **Centers for Disease Control and Prevention's Wide-Ranging Online Data for Epidemiologic Research** you can query numeric data sets on CDC's computers, via "fill-in-the blank" web pages. Public-use data sets about mortality (deaths), cancer incidence, HIV and AIDS, tuberculosis, vaccinations, natality (births), census data, and many other topics are available for query, and the requested data are readily summarized and analyzed, with dynamically calculated statistics, charts, and maps.

Health Statistics Branch

- The **Health Statistics Branch** of the Arkansas Department of Health provides a variety of data concerning the health of Arkansans.
 - The Vital Statistics Section reports information on all vital events: births, deaths, marriages, divorces, fetal deaths, and induced terminations of pregnancies.
 - The Hospital Discharge Section reports on all inpatient and emergency department discharges in Arkansas hospitals and information on health professional manpower.
 - The Registry Section collects and reports on all known cases of cancer, tuberculosis, and sexually transmitted diseases, including HIV, AIDS, syphilis, and gonorrhea.
 - The Survey Section conducts scientifically-based telephone and pencil and paper surveys of health behaviors and conditions.

SEER

- The **Surveillance, Epidemiology, and End Results** Program of the National Cancer Institute provides cancer incidence and survival statistics in an effort to reduce the burden of cancer among the U.S. population. SEER collects and publishes data from population-based cancer registries.

NSCH

- The **National Survey of Children's Health** is a national telephone survey conducted by the Centers for Disease Control and Prevention (CDC), National Center for Health Statistics. It is sponsored by the U.S. Department of Health and Human Services, Health Resources and Services Administration, Maternal and Child Health Bureau.
- The survey is designed to: (1) estimate national and state-level prevalence for a variety of child health indicators; (2) generate information about children, families, and neighborhoods to help guide policymakers, advocates, and researchers; (3) provide baseline estimates for federal and state performance measures, Healthy People 2020 objectives, and state-level needs assessments; and (4) complement the National Survey of Children with Special Health Care Needs (NS-CSHCN).
- The NSCH provides a range of information about child health and well-being collected in a way that allows comparisons among states as well as nationally.

PRAMS

- The **Pregnancy Risk Assessment Monitoring System** is a surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS collects state-specific, population-based data on maternal attitudes and experiences before, during, and shortly after pregnancy.
- PRAMS provides data for state health officials to use to improve the health of mothers and infants.
- PRAMS allows CDC and the states to monitor changes in maternal and child health indicators (e.g., unintended pregnancy, prenatal care, breastfeeding, smoking, drinking, and infant health).
- PRAMS enhances information from birth certificates used to plan and review state maternal and infant health programs.
- The PRAMS sample is chosen from all women who had a live birth recently. Weighting methodology is applied so that the findings are representative of the state's entire population of women who have recently delivered a live-born infant.
- PRAMS not only provides state-specific data but also allows comparisons among **participating** states because the same data collection methods are used in all states.

SAMHSA

- The **Substance Abuse and Mental Health Services Administration** is the agency within the U.S. Department of Health and Human Services that leads public health efforts to advance the behavioral health of the nation. SAMHSA's mission is to reduce the impact of substance abuse and mental illness on America's communities.
- SAMHSA oversees implementation of the Synar Amendment, which requires states to have laws prohibiting the sale and distribution of tobacco products to minors.
 - The Synar Survey monitors the compliance of tobacco retailers with laws prohibiting the sale of tobacco products to minors.
 - In Arkansas, the Synar Survey is a joint effort between the Arkansas Department of Health and the Division of Behavioral Health Services of the Department of Human Services.

The Tax Burden on Tobacco

- The *Tax Burden on Tobacco* is a historical report that is updated annually.
- It is produced by the consulting firm Orzechowski and Walker with support from cigarette manufacturers and state tobacco tax administrators.
- The report includes tables of cigarette tax data for each state from 1955 to 2019.

U.S. Census Bureau

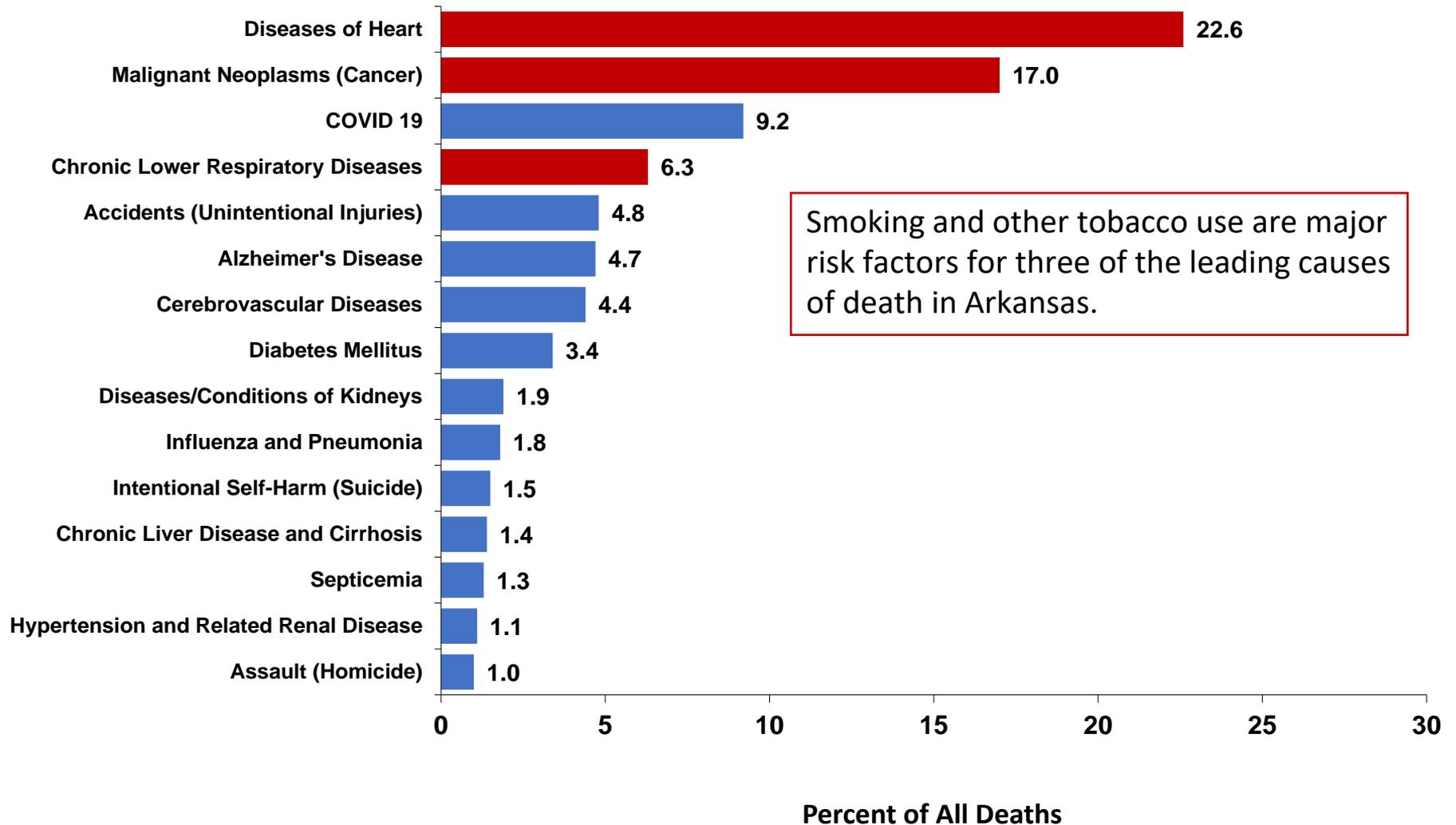
- The **United States Census Bureau's** mission is to serve as the leading source of quality data about the nation's people and economy.
- The Tobacco Data Deck's section on demographics utilizes U.S. Census data. The data is also used as the denominator in many other sections.

YRBS

- The CDC's **Youth Risk Behavior Survey** is part of the only surveillance system designed to monitor a wide range of priority health risk behaviors – unintentional injuries and violence; tobacco, alcohol, and other drug use; sexual behaviors that contribute to unintended pregnancy and sexually transmitted diseases, including HIV infection; unhealthy dietary behaviors; physical inactivity; obesity; and asthma – among high school students.
- It uses a stratified random sample of schools and students at both the national and state levels. It is a paper-based classroom survey.

Top 15 Leading Causes of Death (All Ages)

Arkansas 2020

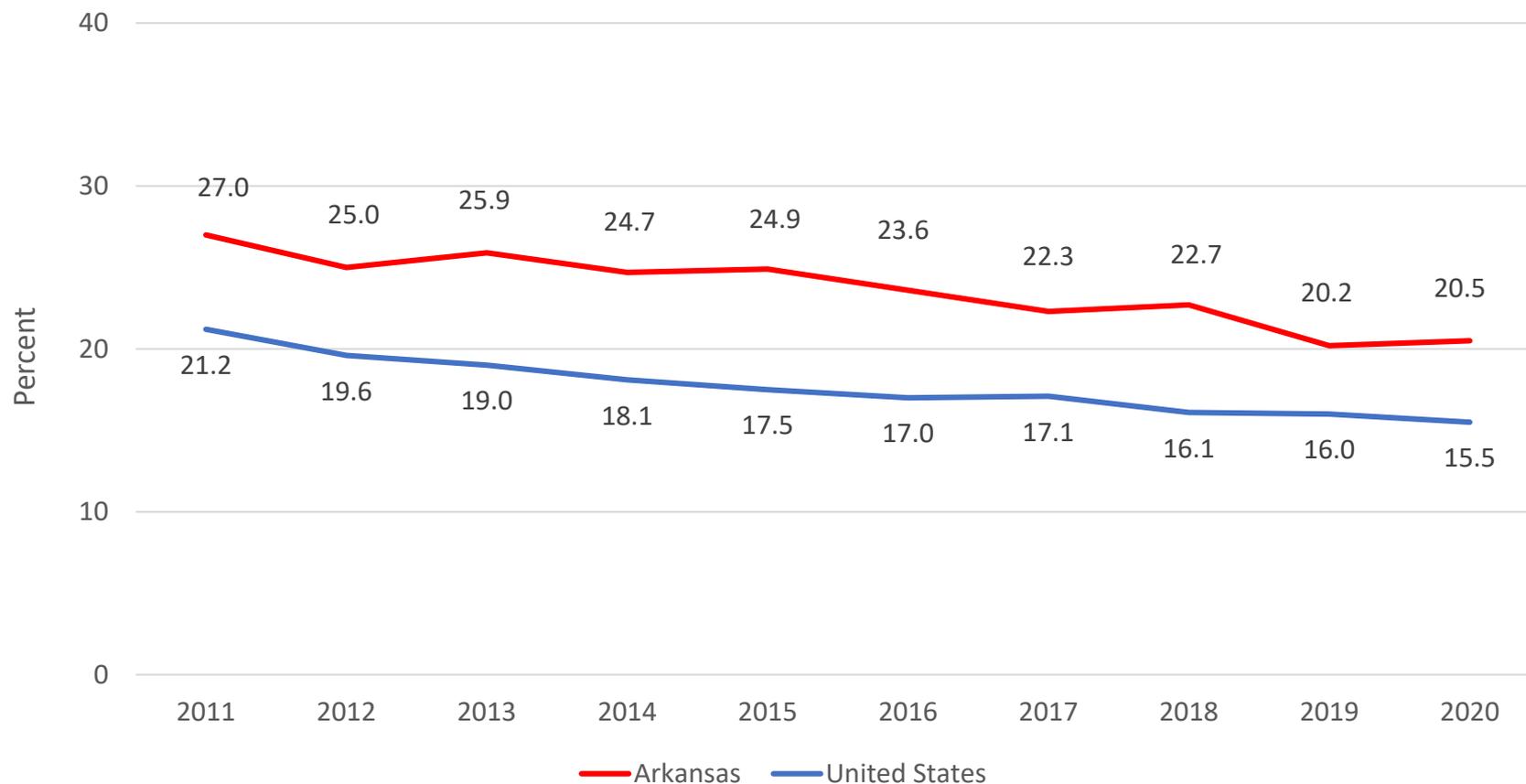


SECTION I
Tobacco Statistics

A. Adult Tobacco Use – Behavioral Risk Factor Surveillance System

- Adults are defined as persons aged 18 years or older

Current Cigarette Smoking among Adults Arkansas & U.S.* 2011-2020



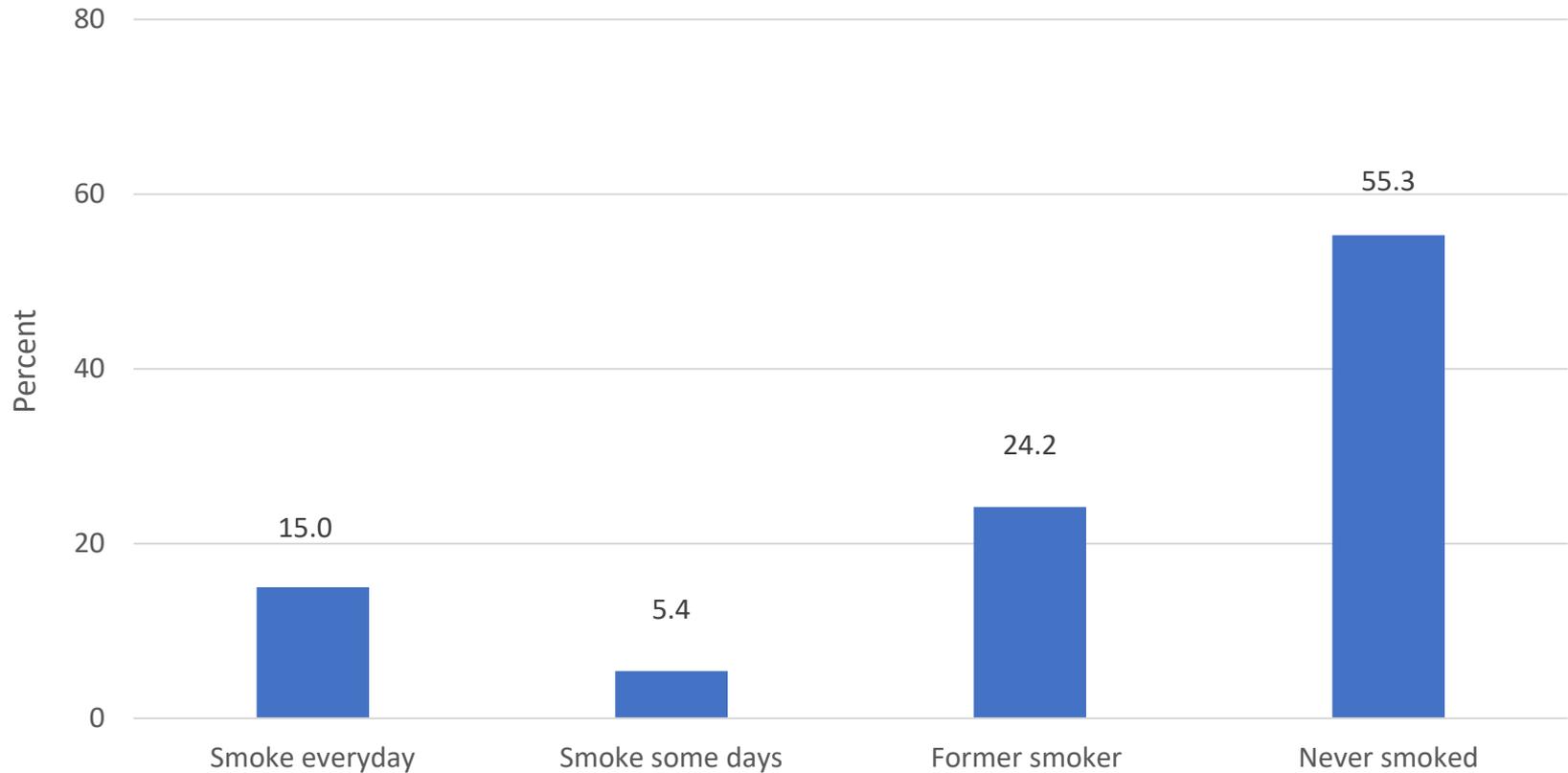
Respondents who report having smoked 100 cigarettes in their lifetime and currently smoke every day or some days.

In 2011, BRFSS had substantial methodological changes; 2011 and subsequent years are not comparable to years prior to 2011.

* The U.S. rate is the median of the states, D.C. and Territories. Source: Behavioral Risk Factor Surveillance System (BRFSS)

Cigarette Smoking Status among Adults

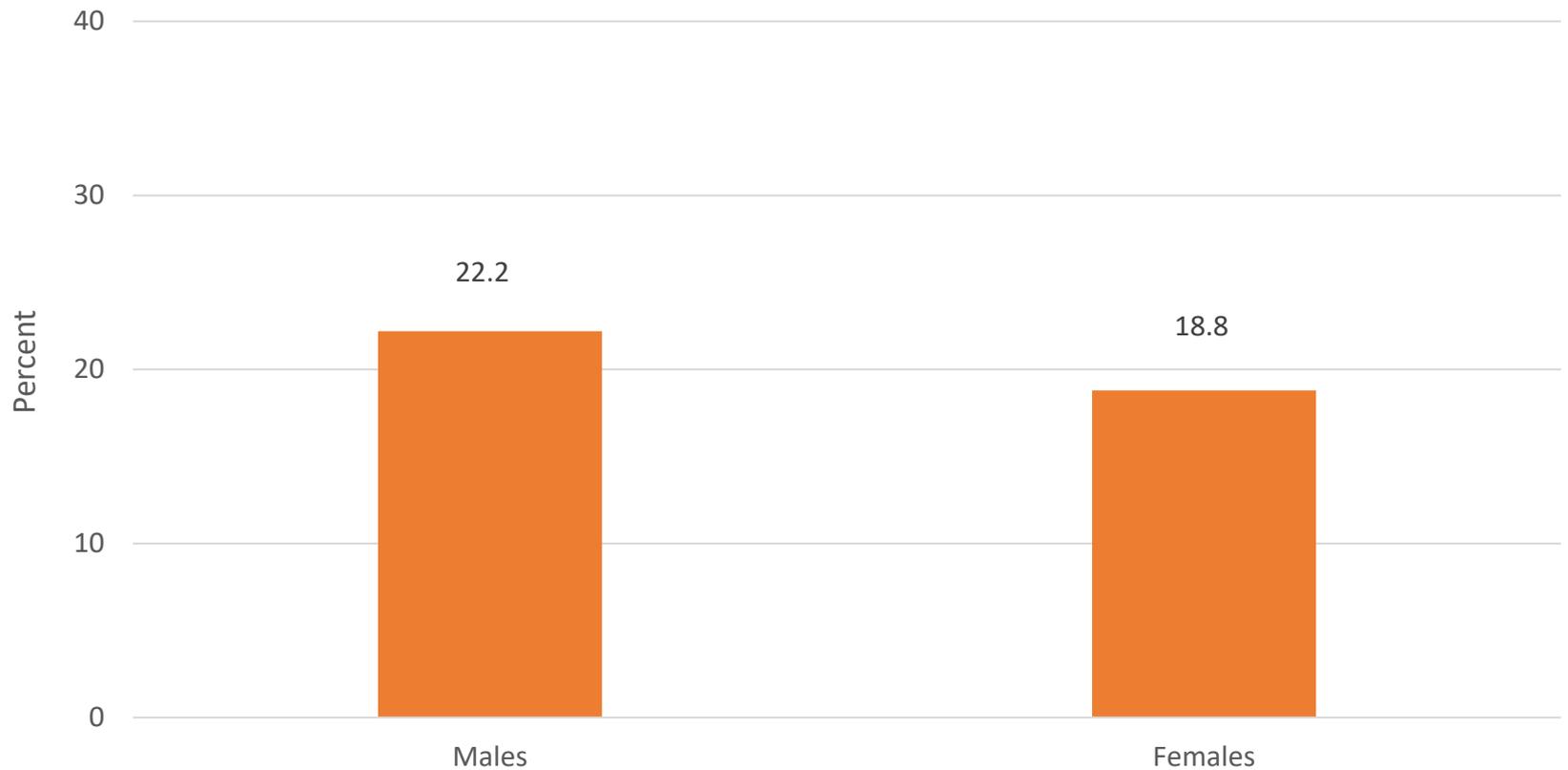
Arkansas 2020



Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adults by Gender

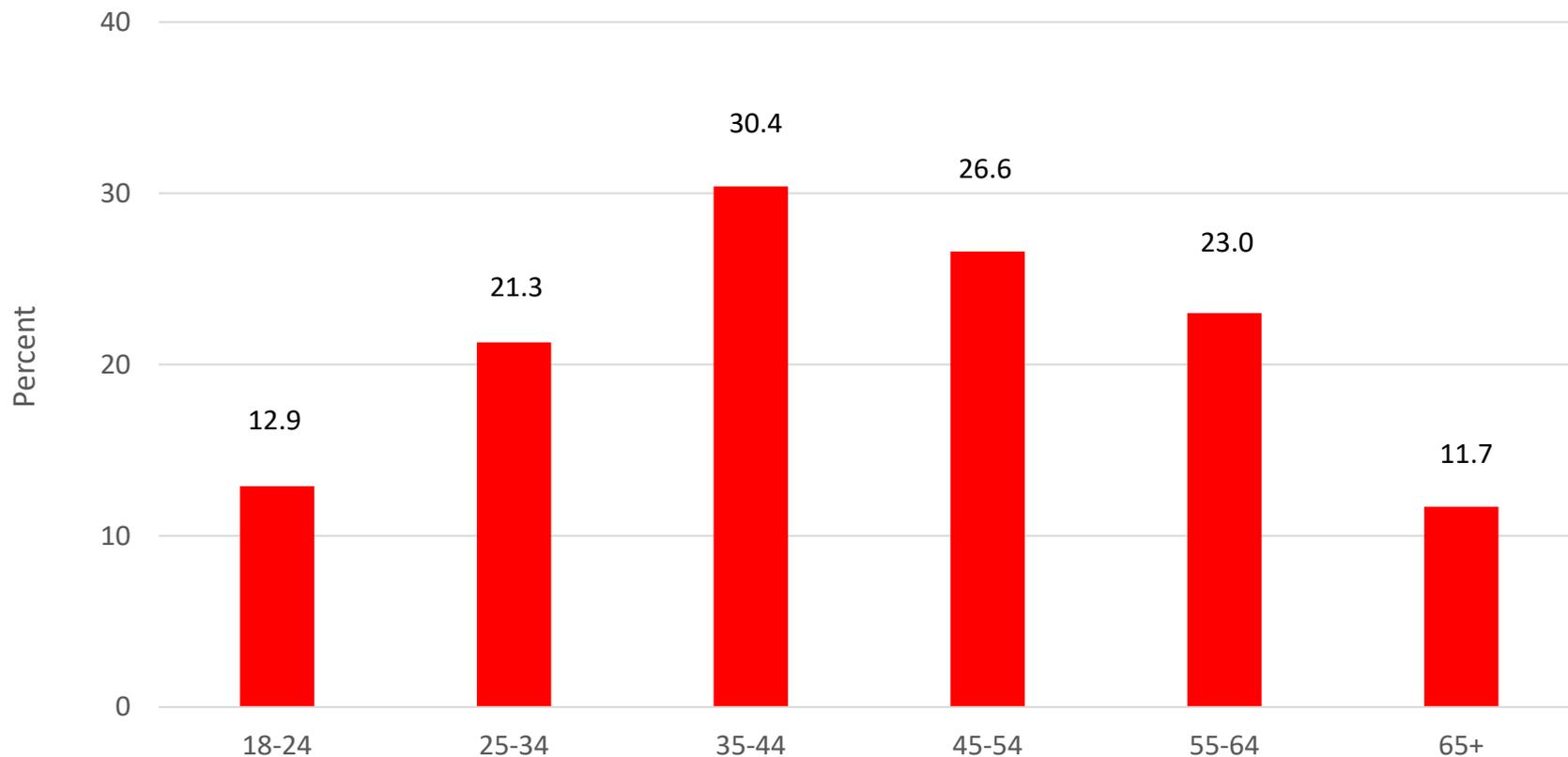
Arkansas 2020



Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adults by Age Group

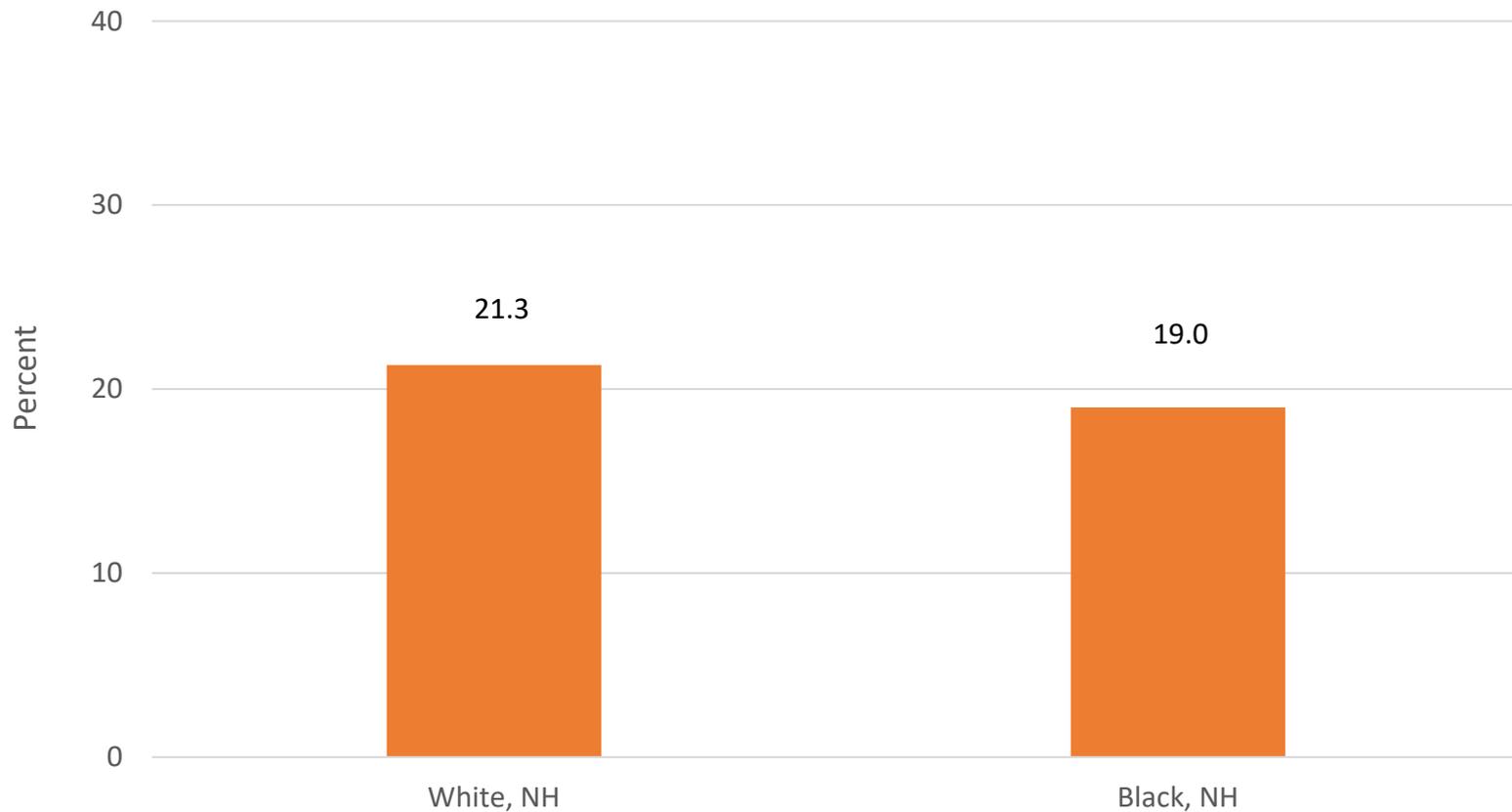
Arkansas 2020



Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adults by Race/Ethnicity Arkansas 2020

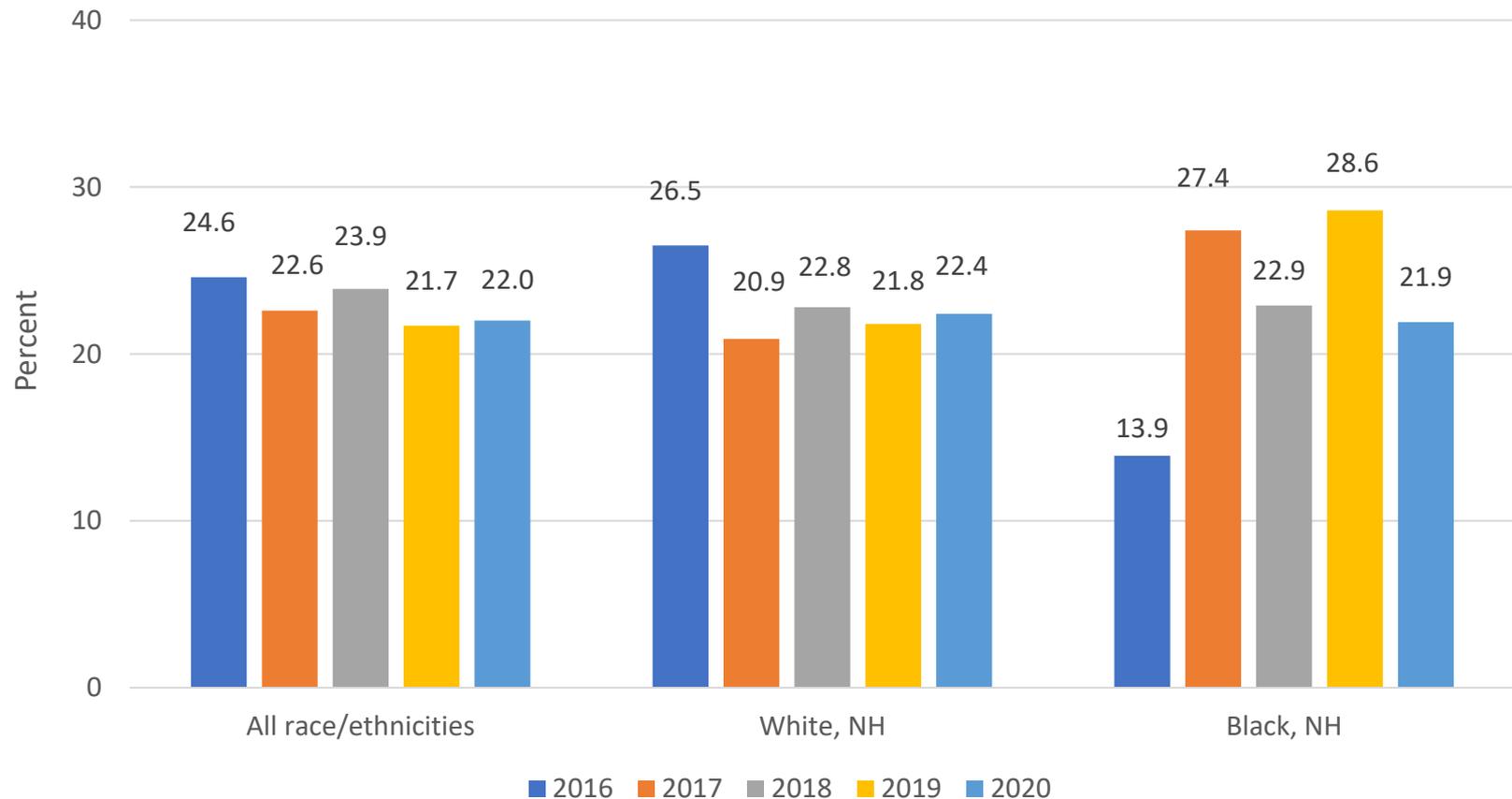


Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).

NH = Non-Hispanic

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adult Males by Race/Ethnicity Arkansas 2016-2020

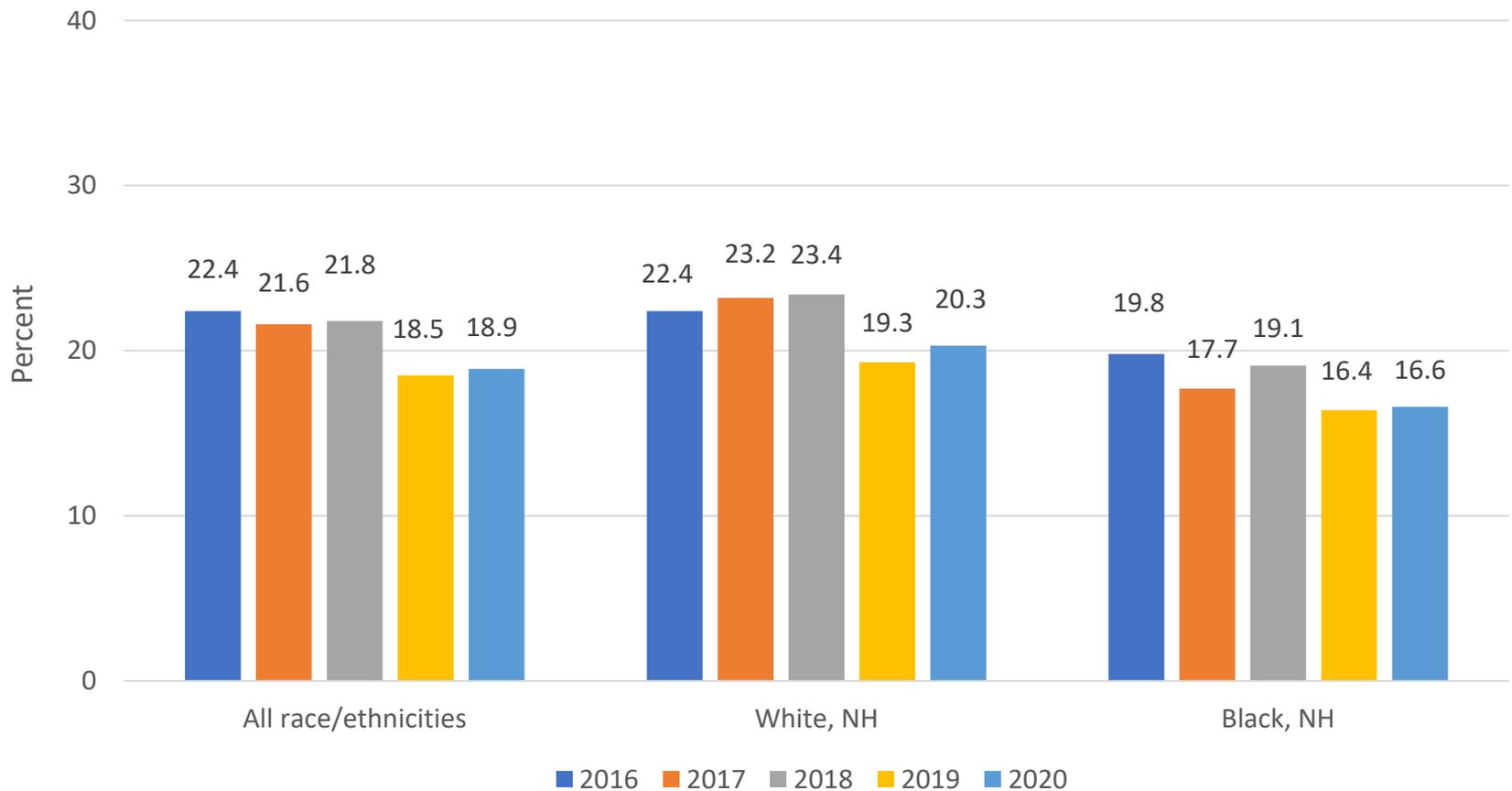


Four Level Smoking Status (variable calculated from one or more BRFSS questions) (Crude Prevalence).

NH = Non-Hispanic.

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adult Females by Race/Ethnicity Arkansas 2016-2020

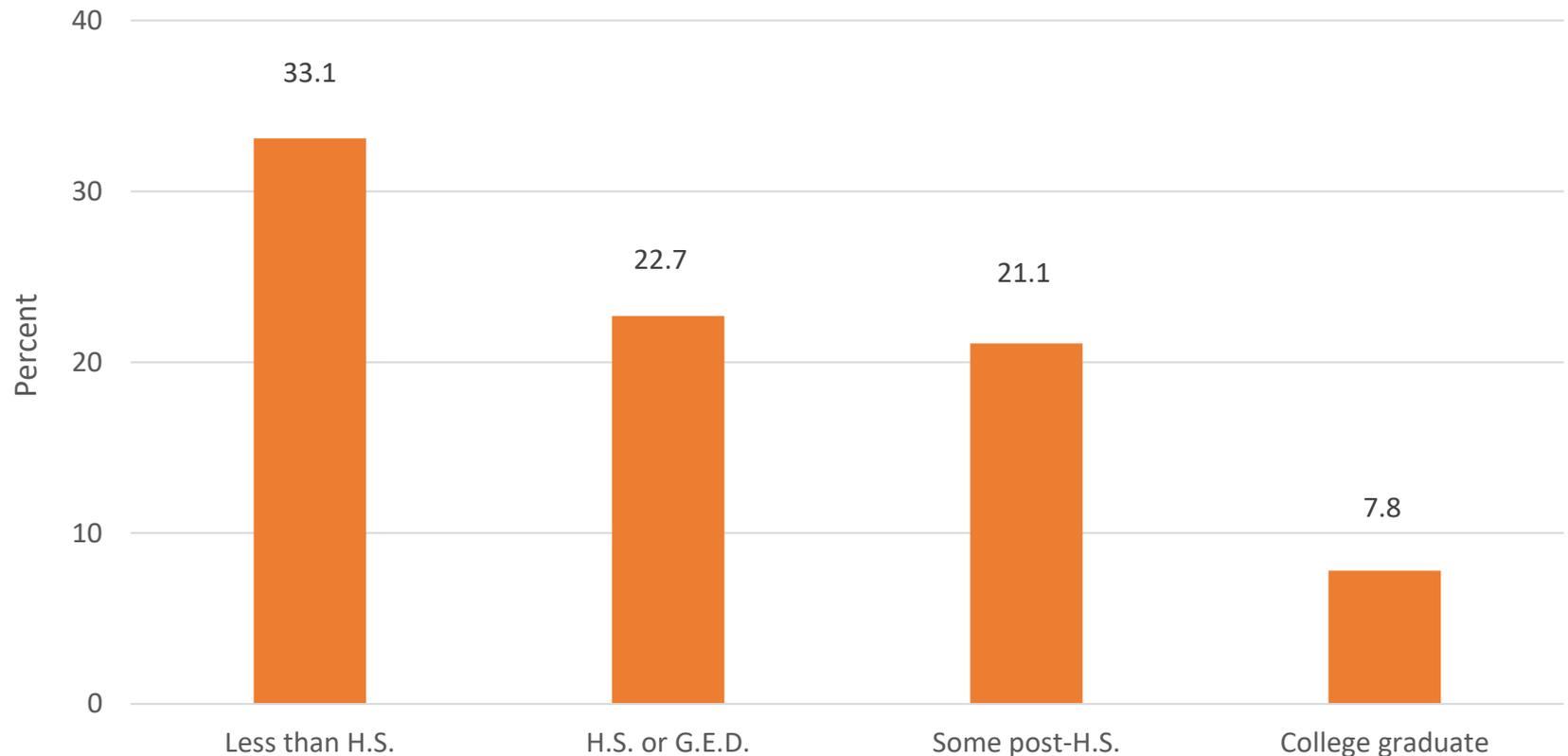


Four Level Smoking Status (variable calculated from one or more BRFSS questions) (Crude Prevalence).

NH = Non-Hispanic.

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Cigarette Smoking among Adults by Educational Attainment Arkansas 2020



Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).

H.S. = High School, G.E.D. = General Educational Development

Source: Behavioral Risk Factor Surveillance System (BRFSS)

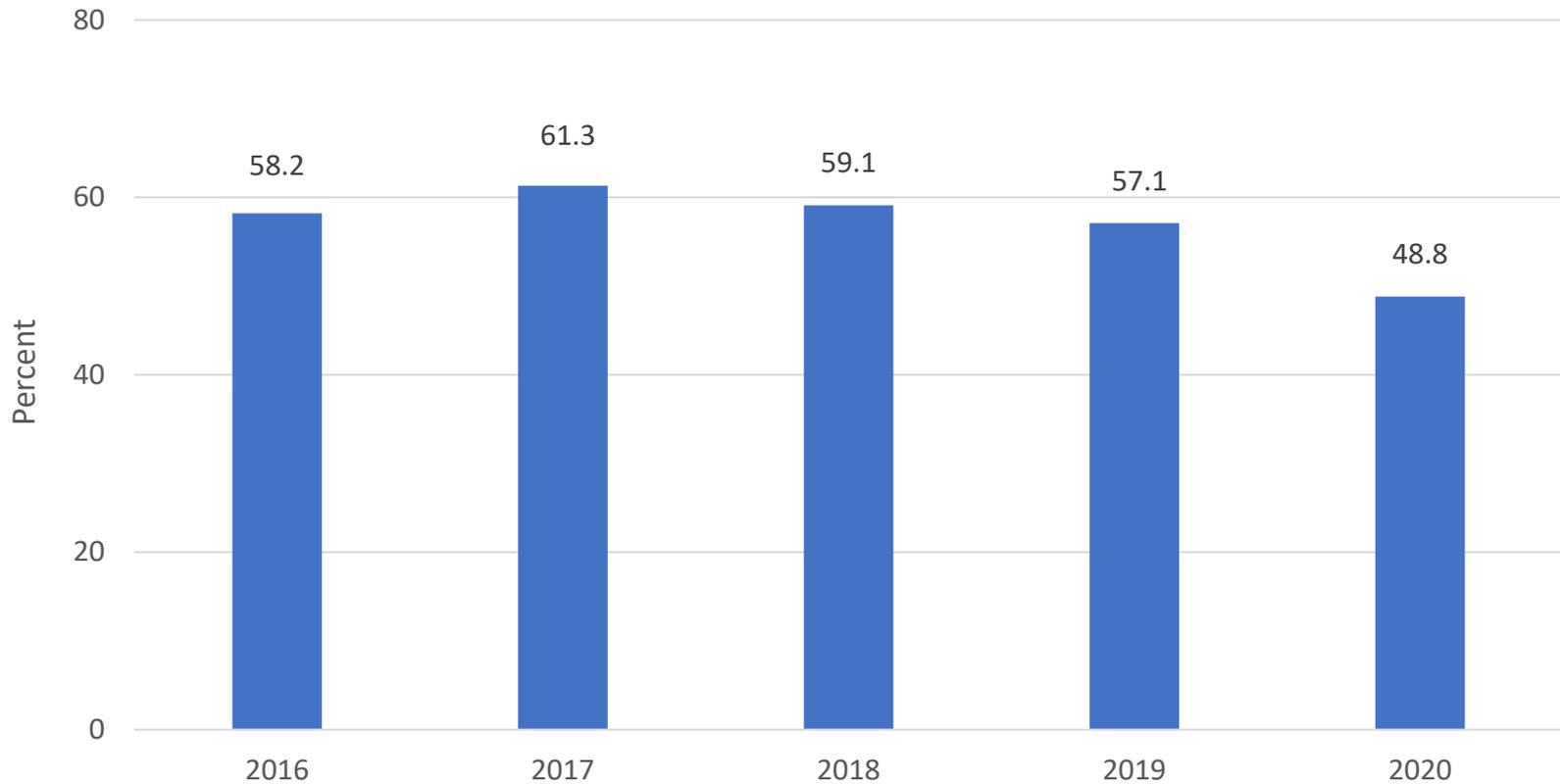
Current Cigarette Smoking among Adults by Household Income

Arkansas 2020



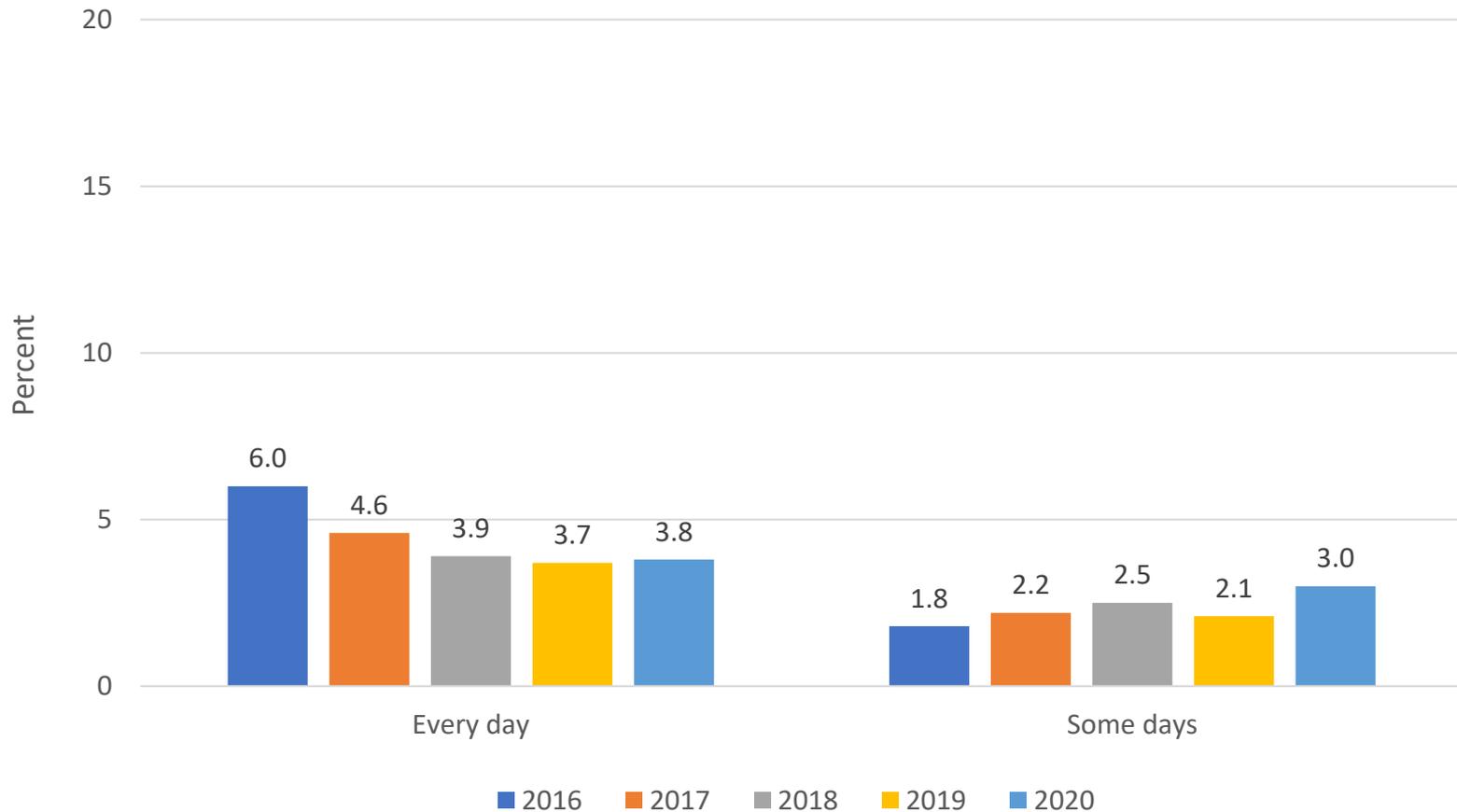
Adults who are current smokers (variable calculated from one or more BRFSS questions) (Crude Prevalence).
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Percent of Adult Current Smokers Who Made a Quit Attempt in the Past Year Arkansas 2016-2020



Tobacco Use: Quit smoking for 1 day or more in past 12 months.
Source: Behavioral Risk Factor Surveillance System (BRFSS WEAT)

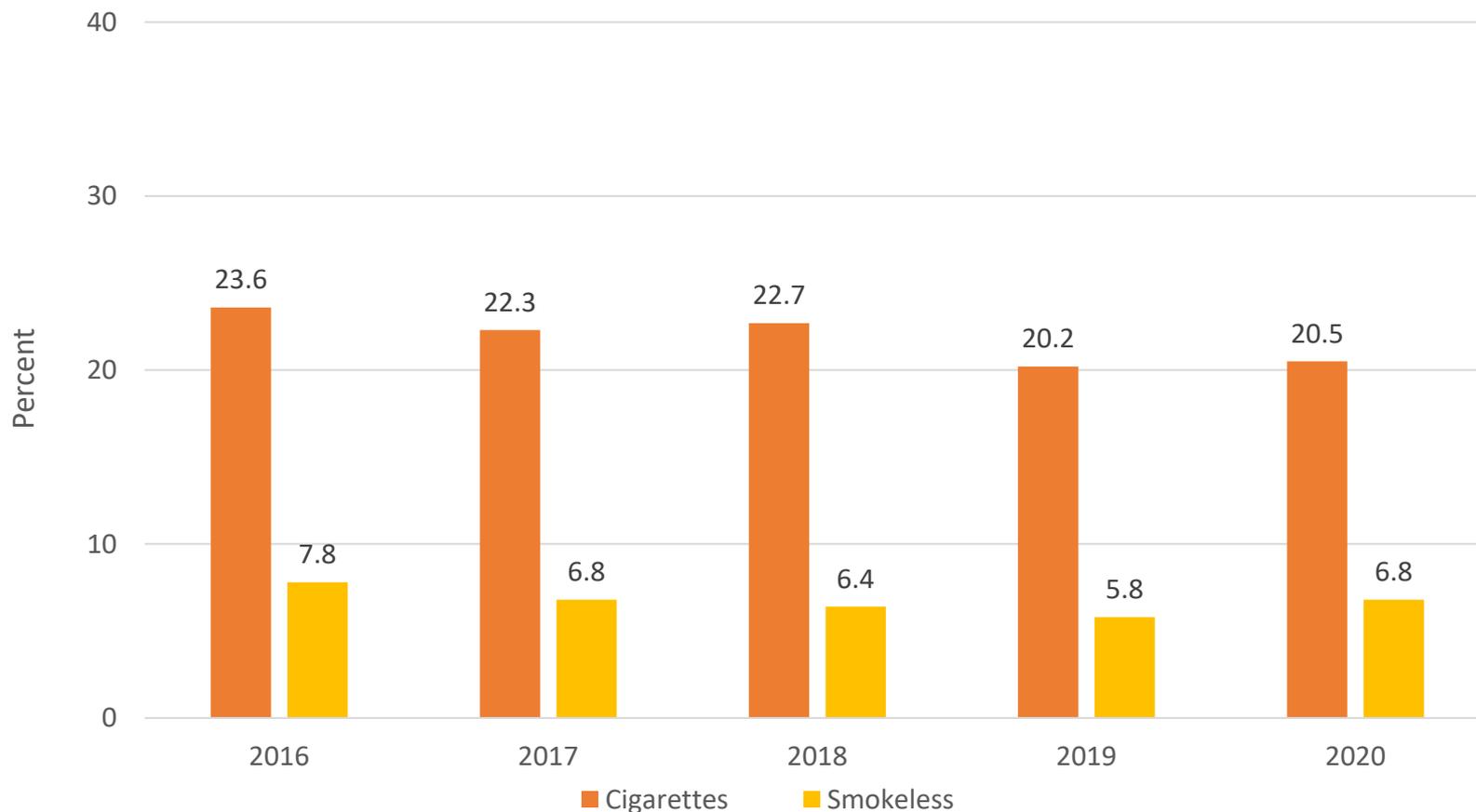
Current Smokeless Tobacco Use among Adults Arkansas 2016-2020



Do you currently use chewing tobacco, snuff, or snus every day, some days, or not at all? (Answer: Every day or Some days) (Crude Prevalence).
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Current Tobacco Use among Adults

Arkansas 2016-2020



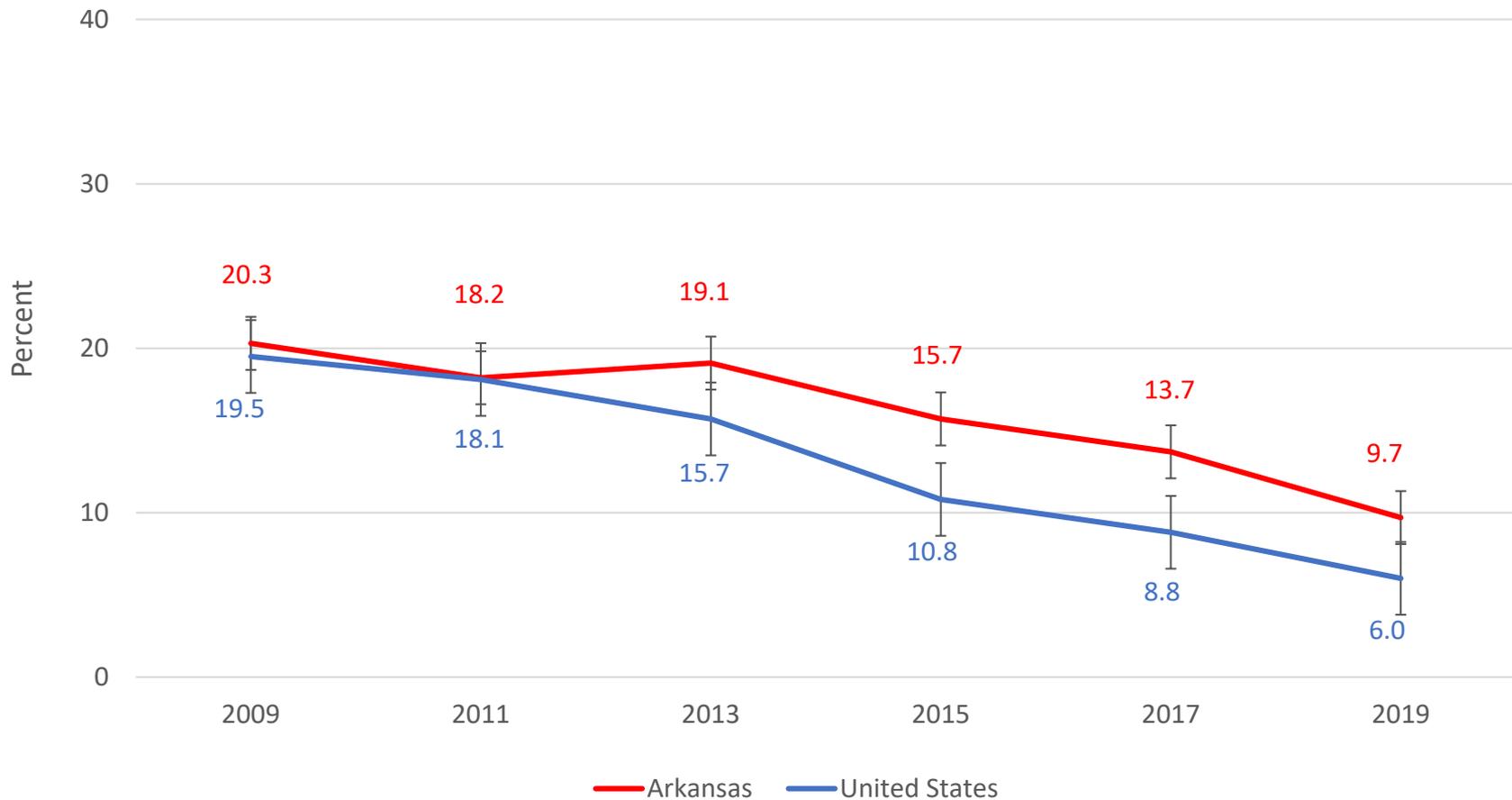
Question: Do you currently use chewing tobacco, snuff, or snus every day, some days, or not at all? and Variable: Adults who are current smokers (calculated from one or more BRFSS questions).

Source: Source: Behavioral Risk Factor Surveillance System (BRFSS)

B. Youth Tobacco Use – YRBS

Youth Risk Behavior Survey
High School Students – Grades 9, 10, 11, and 12

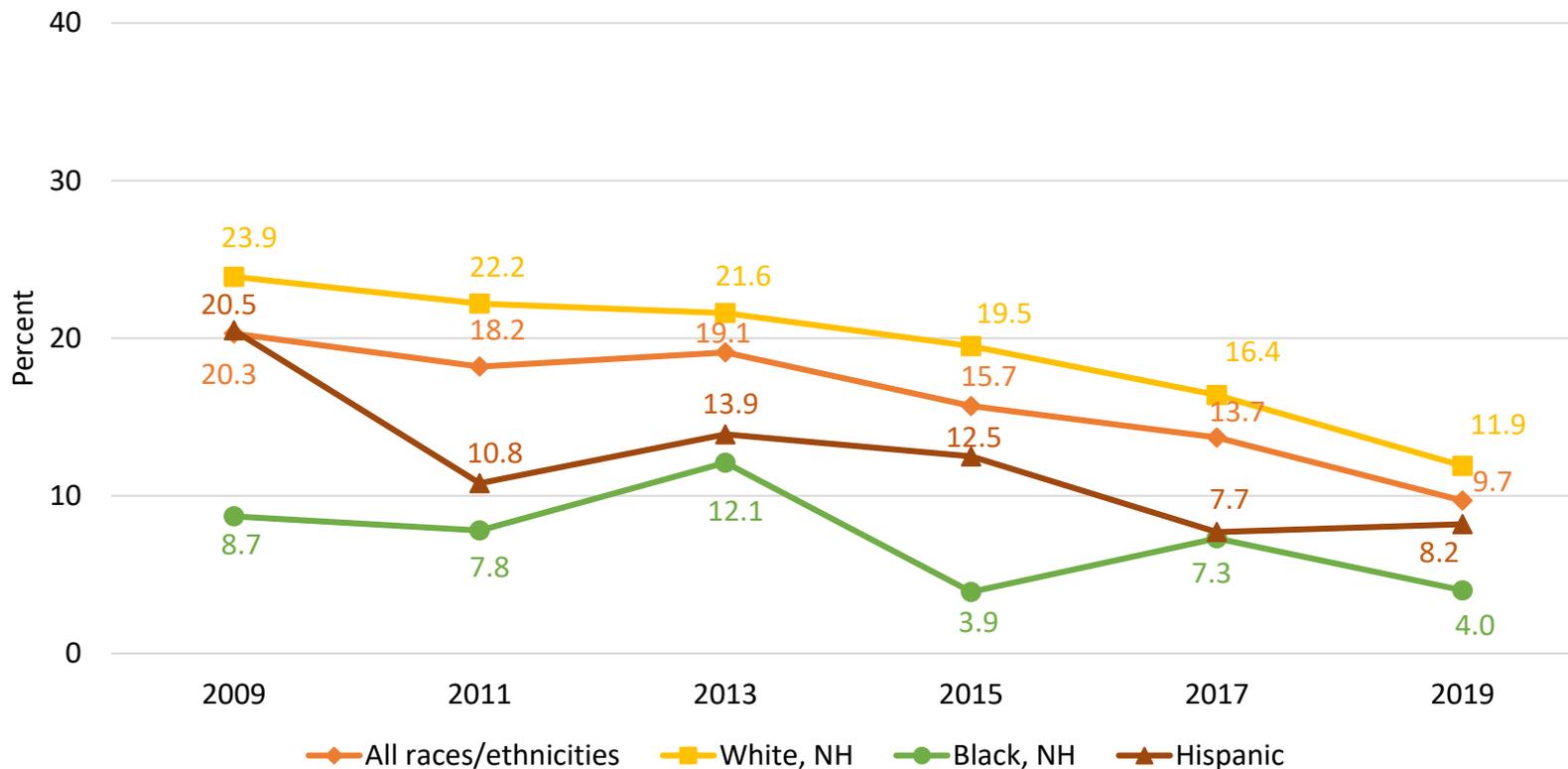
Current Cigarette Smoking among High School Students Arkansas and U.S. 2009-2019



High School students who currently smoked cigarettes on at least 1 day during the 30 days before the survey.
Source: Youth Risk Behavior Survey (YRBS)

Current Cigarette Smoking among High School Students by Race/Ethnicity

Arkansas 2009-2019

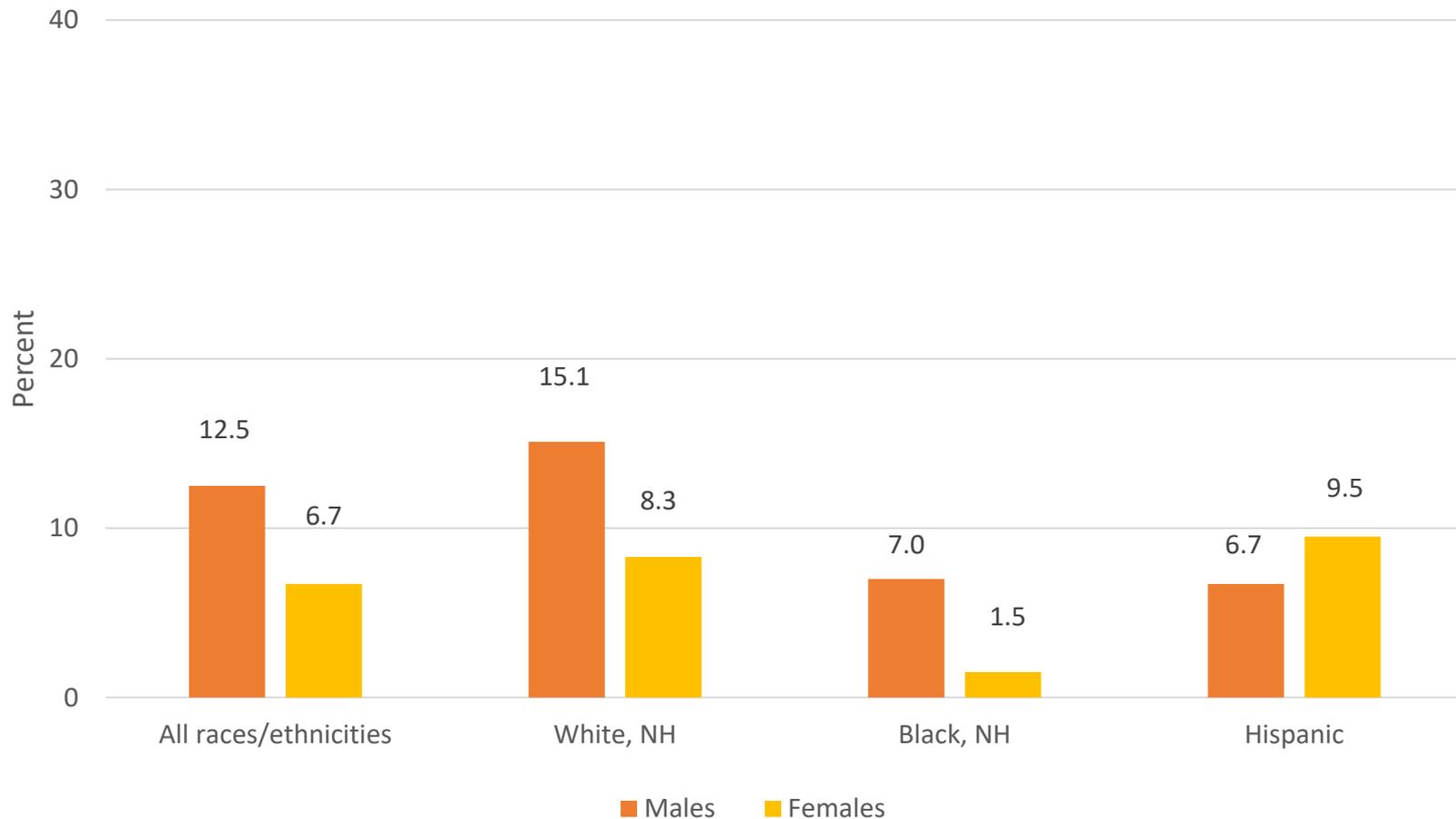


High School students who currently smoked cigarettes on at least 1 day during the 30 days before the survey.

NH = non-Hispanic

Source: Youth Risk Behavior Survey (YRBS)

Current Cigarette Smoking among High School Students by Race/Ethnicity and Gender Arkansas 2019



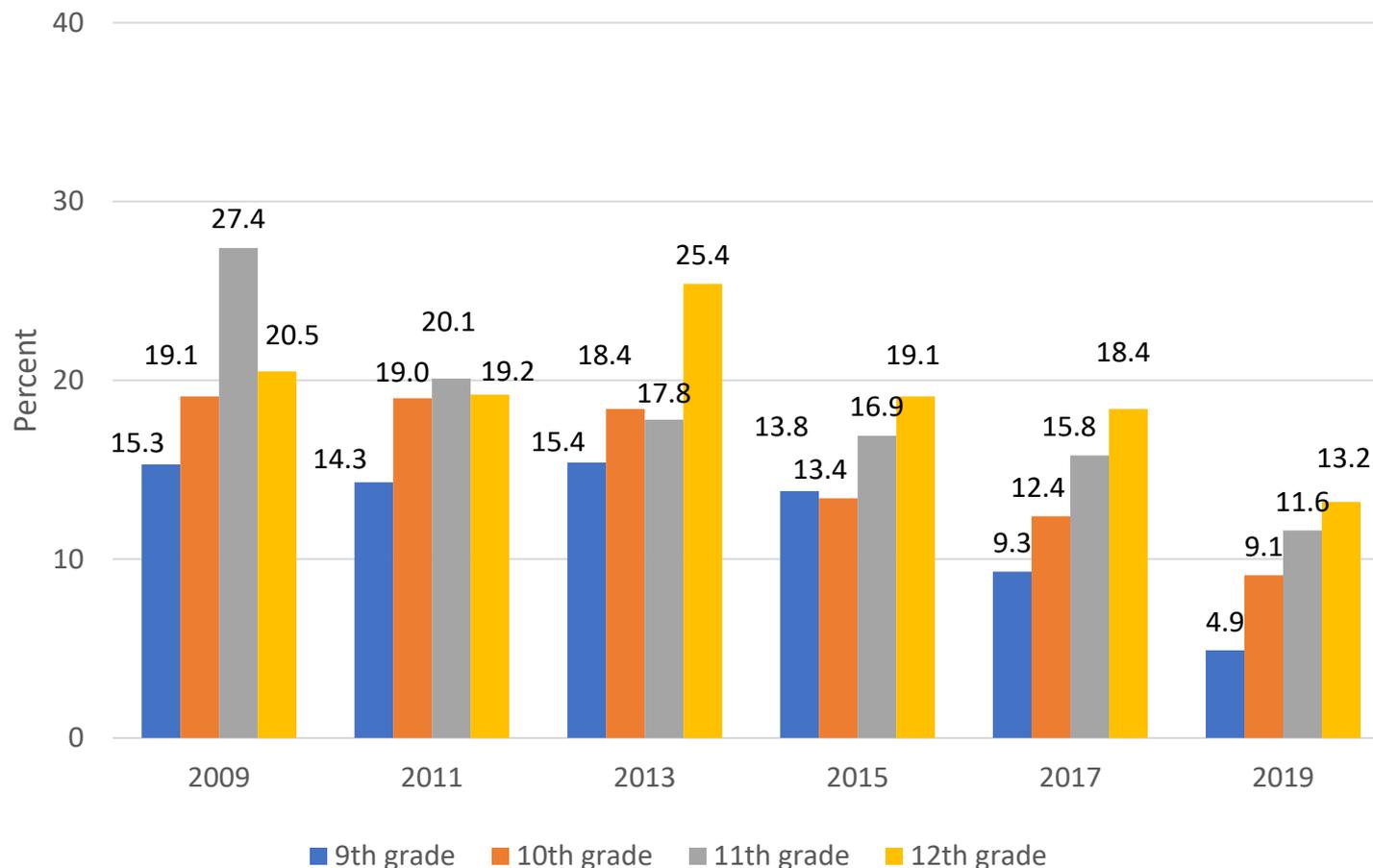
High School students who currently smoked cigarettes on at least 1 day during the 30 days before the survey.

NH = non-Hispanic

Source: Youth Risk Behavior Survey (YRBS)

Current Cigarette Smoking among High School Students by Grade Level

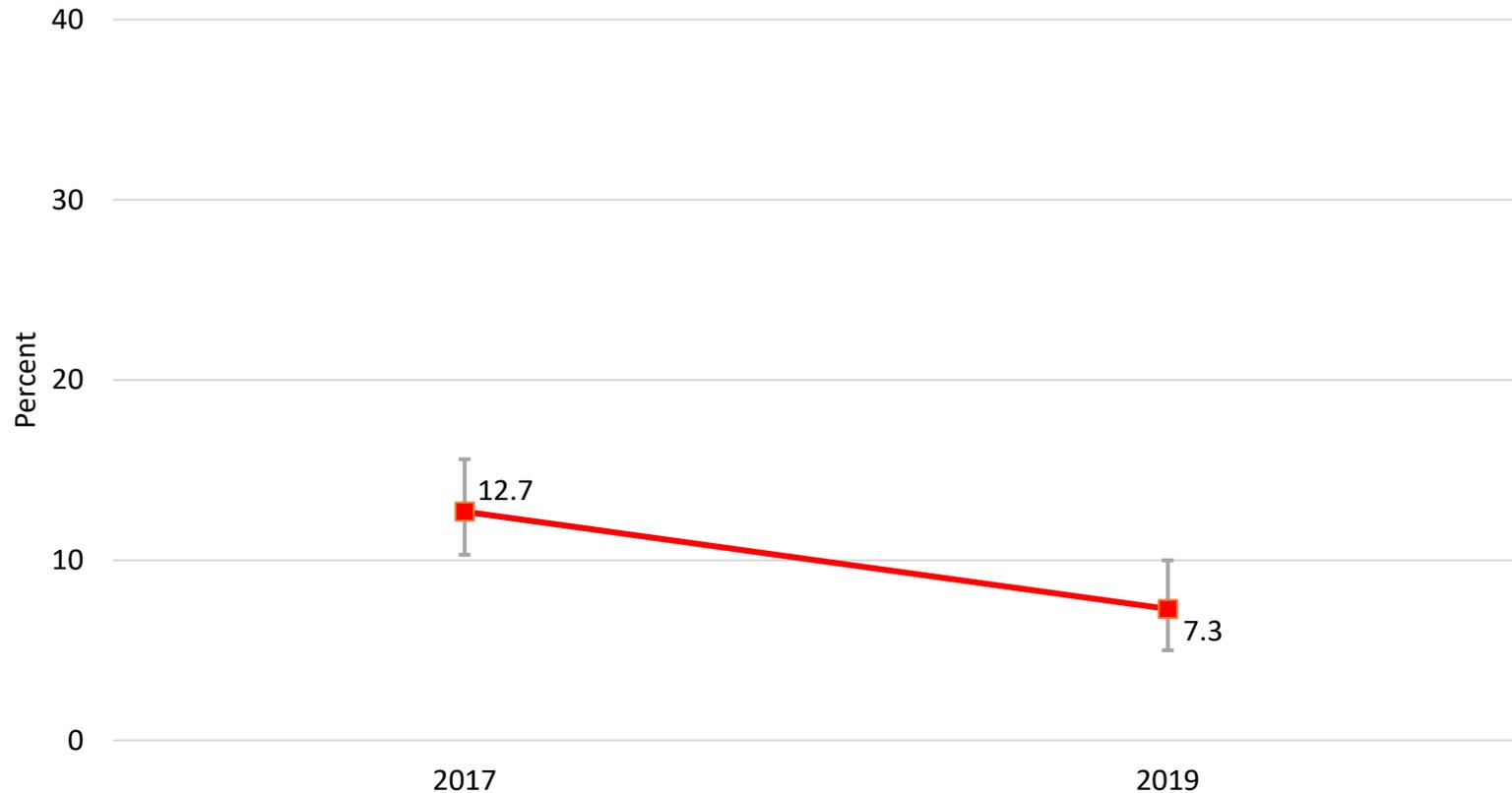
Arkansas 2009-2019



High School students who currently smoked cigarettes on at least 1 day during the 30 days before the survey.
Source: Youth Risk Behavior Survey (YRBS)

Current Smokeless Tobacco Use among High School Students

Arkansas 2017-2019

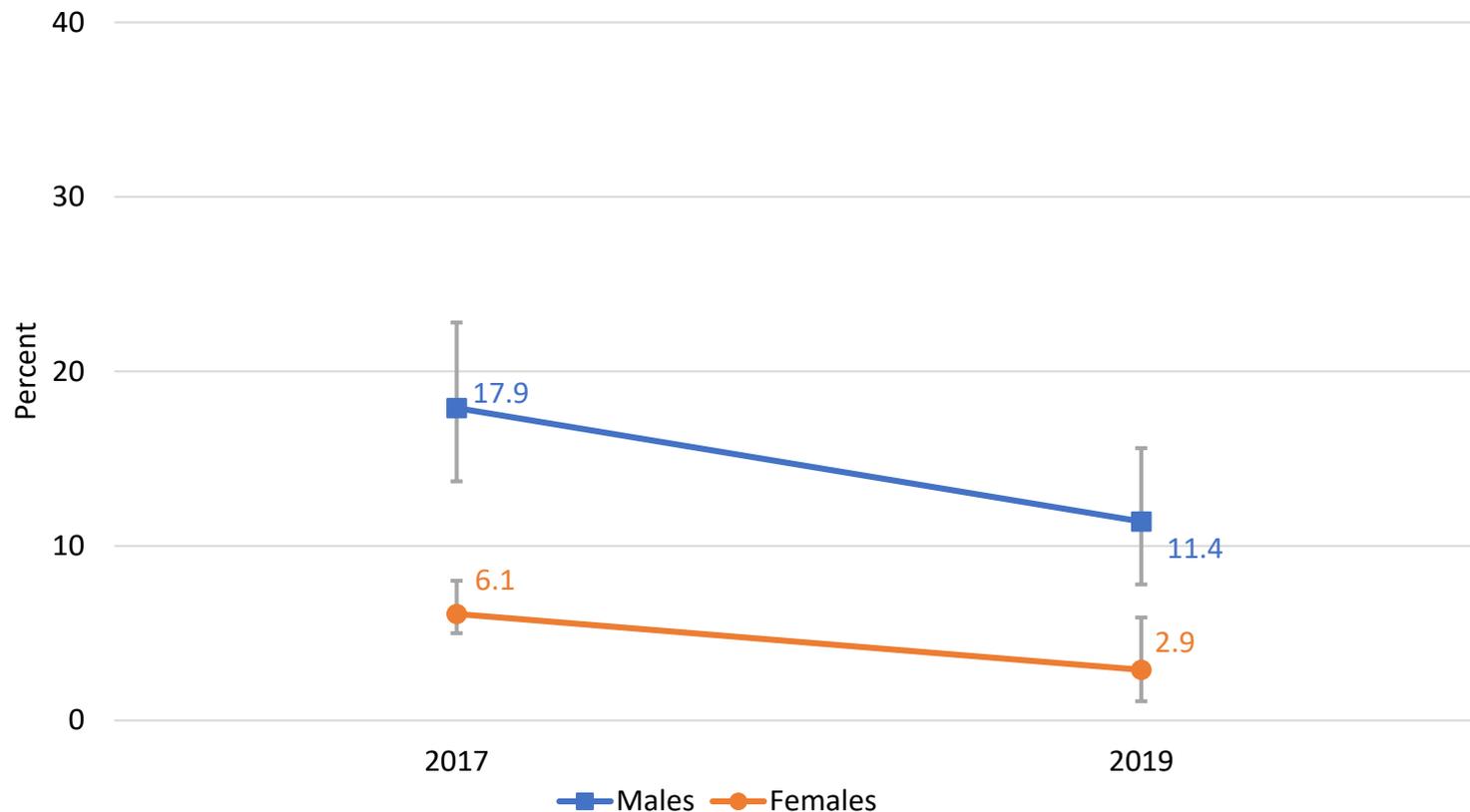


High School students who Currently Used Smokeless Tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, Copenhagen, Camel Snus, Marlboro Snus, General Snus, Ariva, Stonewall, or Camel Orbs, not counting any electronic vapor products) on at least 1 day during the 30 days before the survey.

Data not available for years 2009-2015 due to question wording change in 2017.

Source: Youth Risk Behavior Survey (YRBS)

Current Smokeless Tobacco Use among High School Students by Gender Arkansas 2017-2019

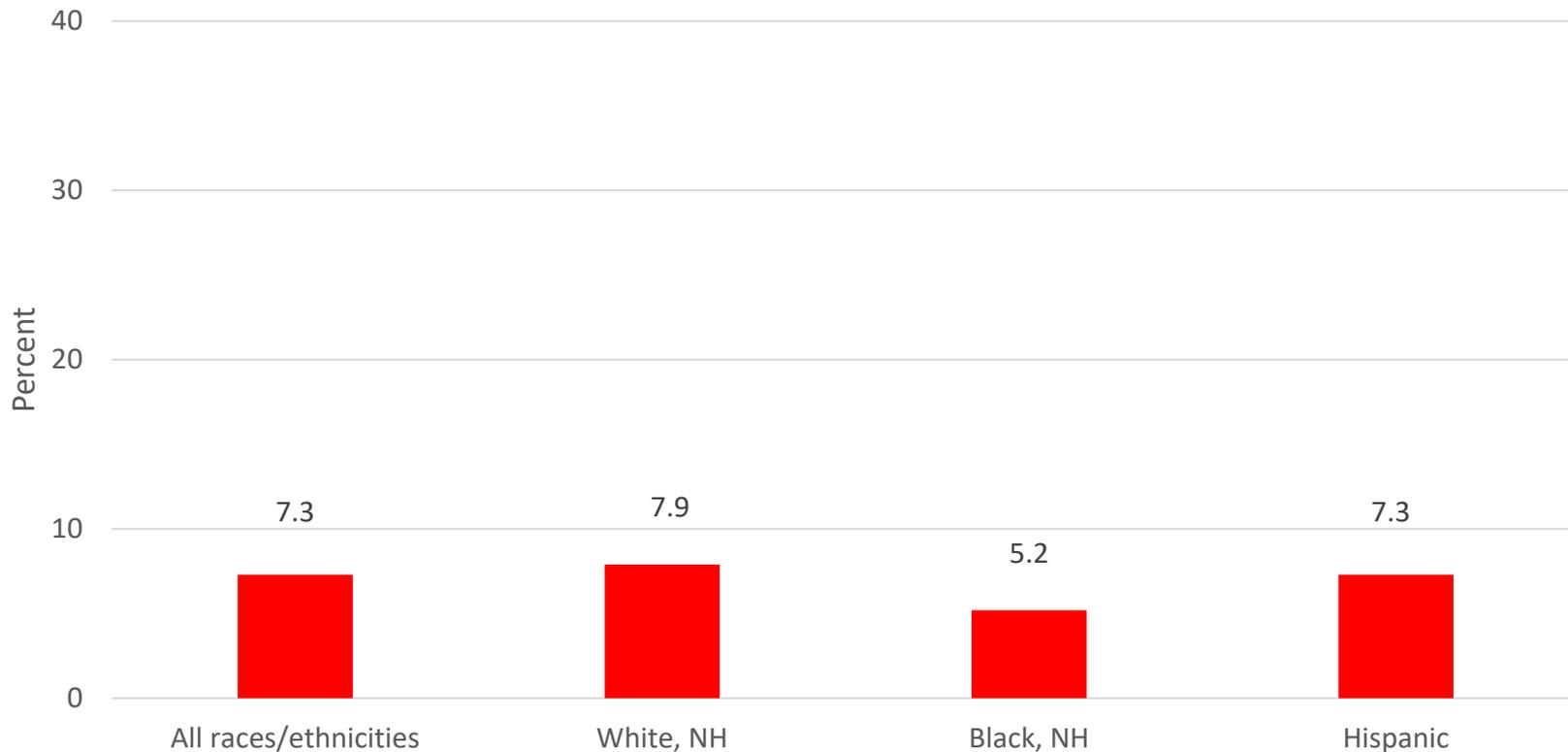


High School students who Currently Used Smokeless Tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, Copenhagen, Camel Snus, Marlboro Snus, General Snus, Ariva, Stonewall, or Camel Orbs, not counting any electronic vapor products) on at least 1 day during the 30 days before the survey.

Data not available for years 2009-2015 due to question wording change in 2017.

Source: Youth Risk Behavior Survey (YRBS)

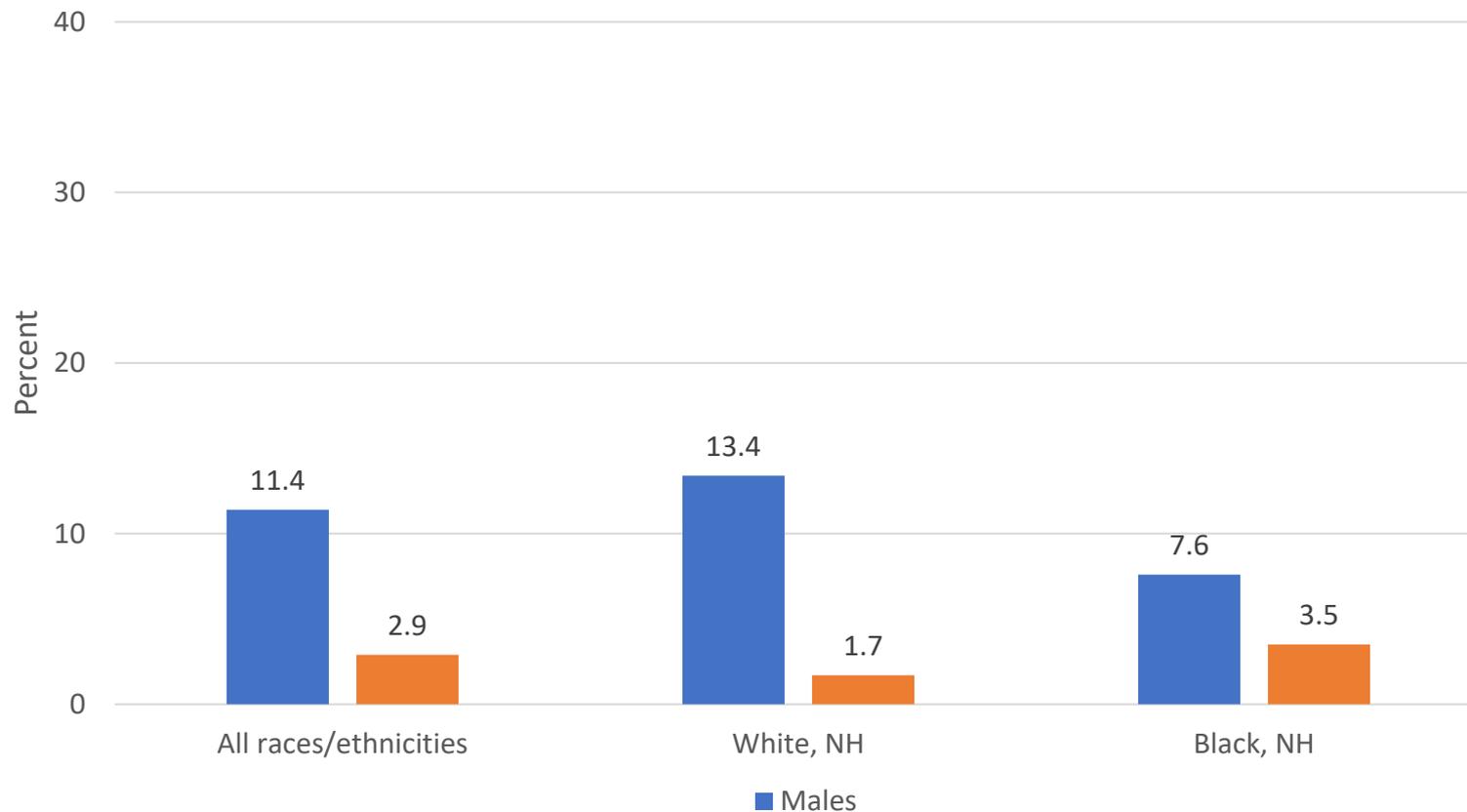
Current Smokeless Tobacco Use among High School Students by Race/Ethnicity Arkansas 2019



High School students who Currently Used Smokeless Tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, Copenhagen, Camel Snus, Marlboro Snus, General Snus, Ariva, Stonewall, or Camel Orbs, not counting any electronic vapor products) on at least 1 day during the 30 days before the survey. NH = Non-Hispanic.

Source: Youth Risk Behavior Survey (YRBS)

Current Smokeless Tobacco Use among High School Students by Race/Ethnicity and Gender Arkansas 2019

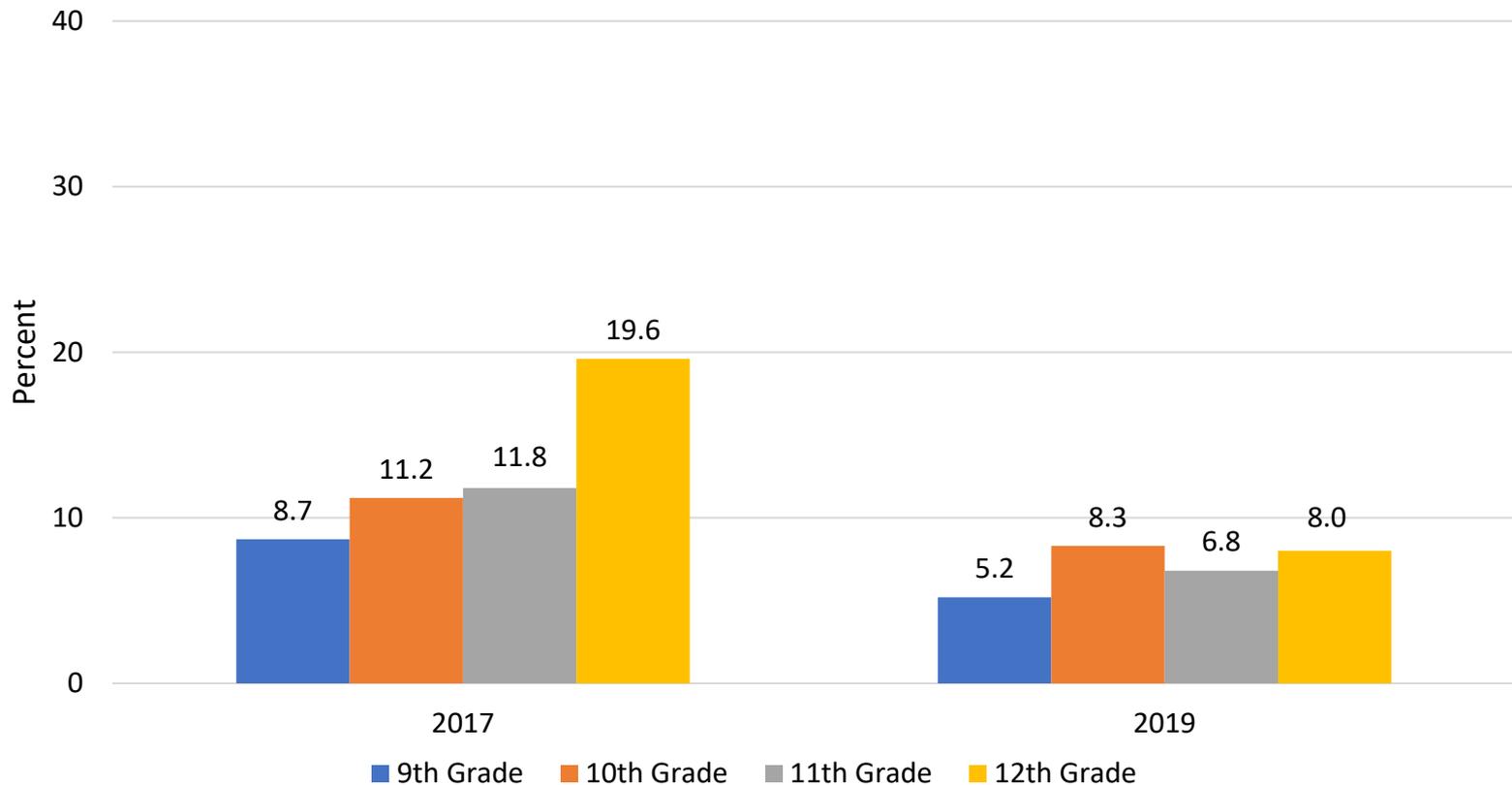


High School students who Currently Used Smokeless Tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, Copenhagen, Camel Snus, Marlboro Snus, General Snus, Ariva, Stonewall, or Camel Orbs, not counting any electronic vapor products) on at least 1 day during the 30 days before the survey. NH = Non-Hispanic.

Source: Youth Risk Behavior Survey (YRBS)

Current Smokeless Tobacco Use among High School Students by Grade Level

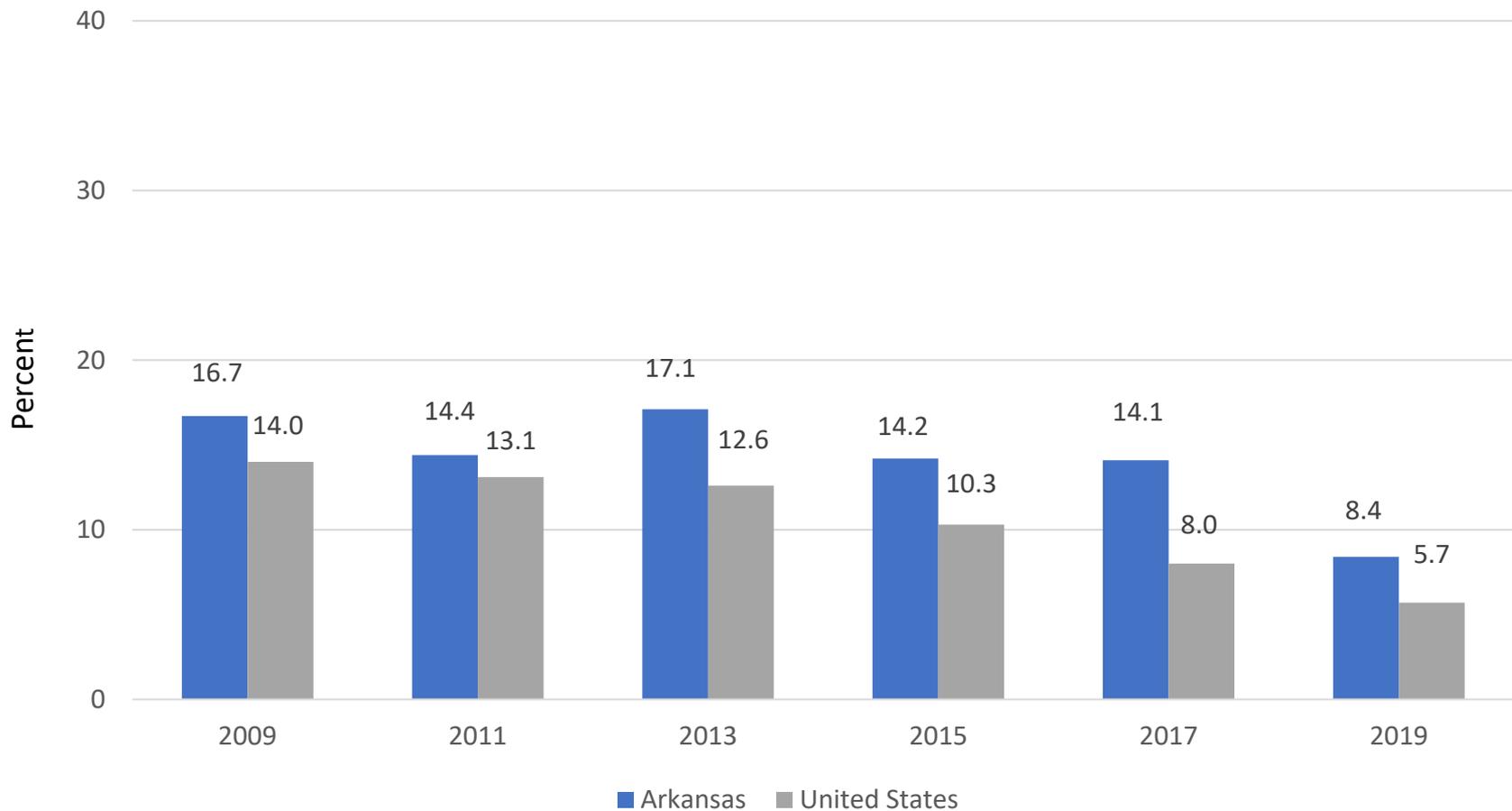
Arkansas 2017-2019



High School students who Currently Used Smokeless Tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, Copenhagen, Camel Snus, Marlboro Snus, General Snus, Ariva, Stonewall, or Camel Orbs, not counting any electronic vapor products) on at least 1 day during the 30 days before the survey. Data not available for years 2009-2015 due to question wording change in 2017.

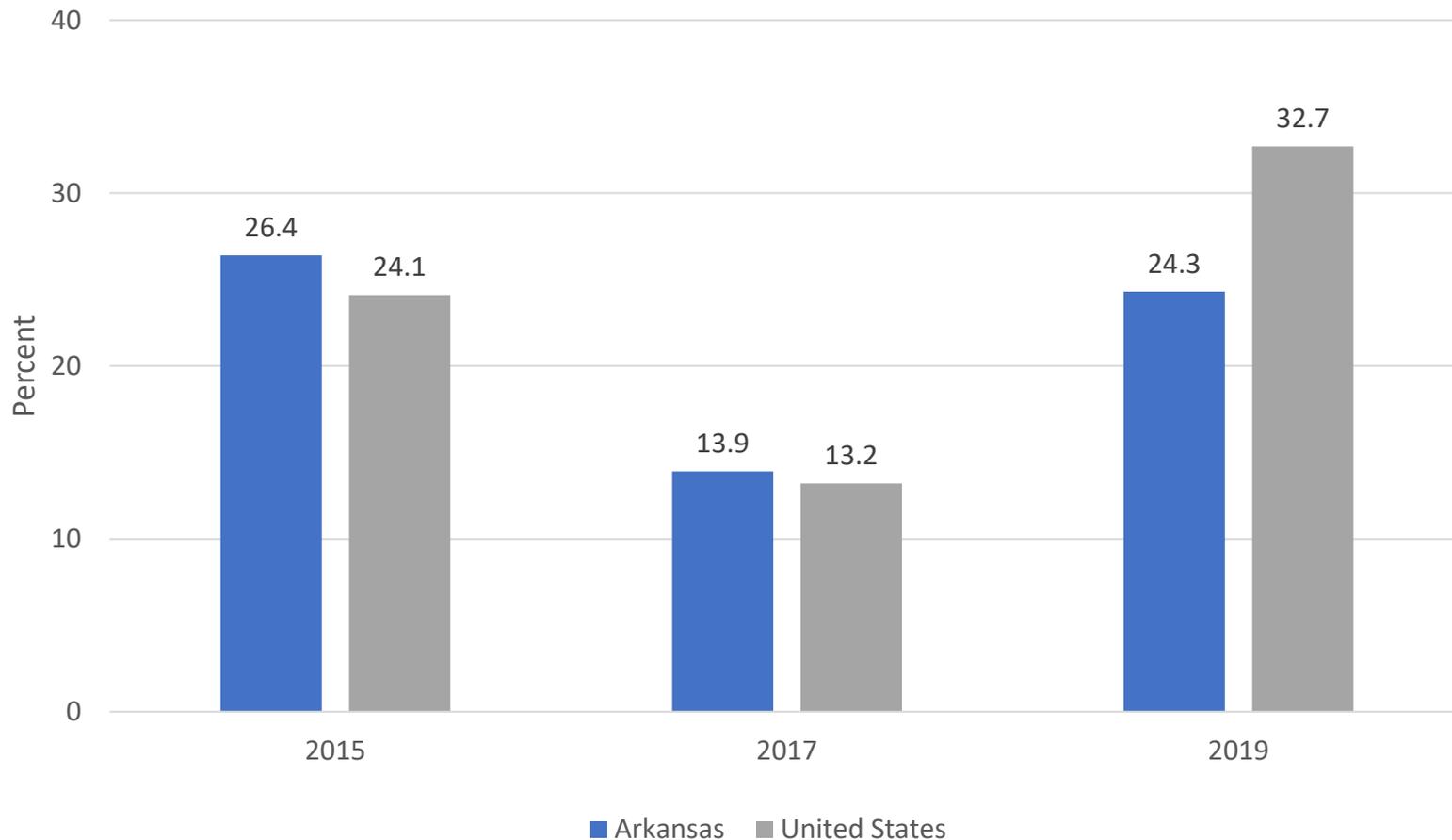
Source: Youth Risk Behavior Survey (YRBS)

Current Cigar Use among High School Students Arkansas and U.S. 2009-2019



High School students who currently smoked cigars (cigars, cigarillos, or little cigars) on at least 1 day during the 30 days before the survey.
Source: Youth Risk Behavior Survey (YRBS)

Current Electronic Vapor Product Use among High School Students Arkansas and U.S. 2015-2019

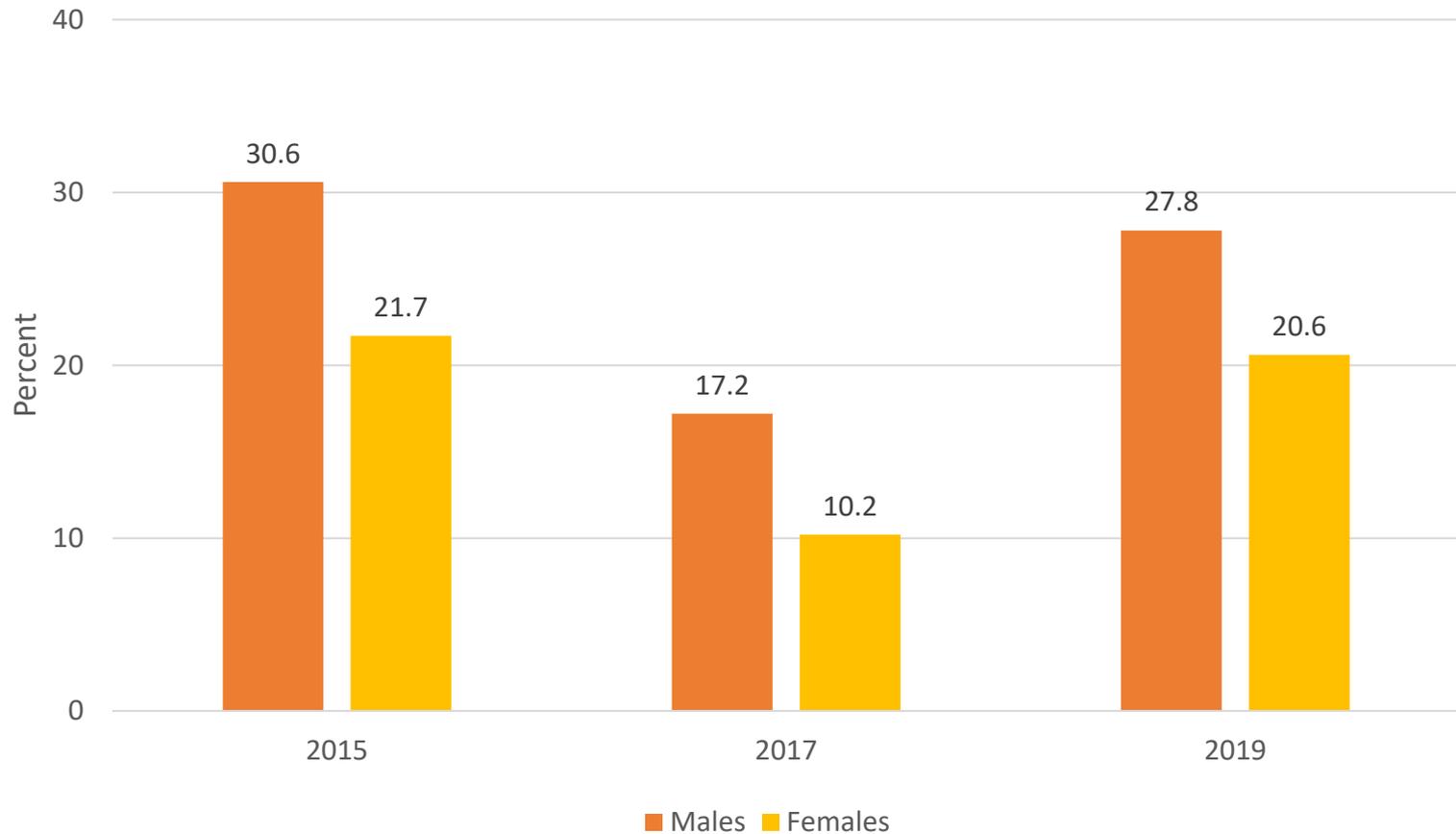


High School students who currently used electronic vapor products (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods) on at least 1 day during the 30 days before the survey.

Source: Youth Risk Behavior Survey (YRBS)

Current Electronic Vapor Product Use among High School Students by Gender

Arkansas 2015-2019

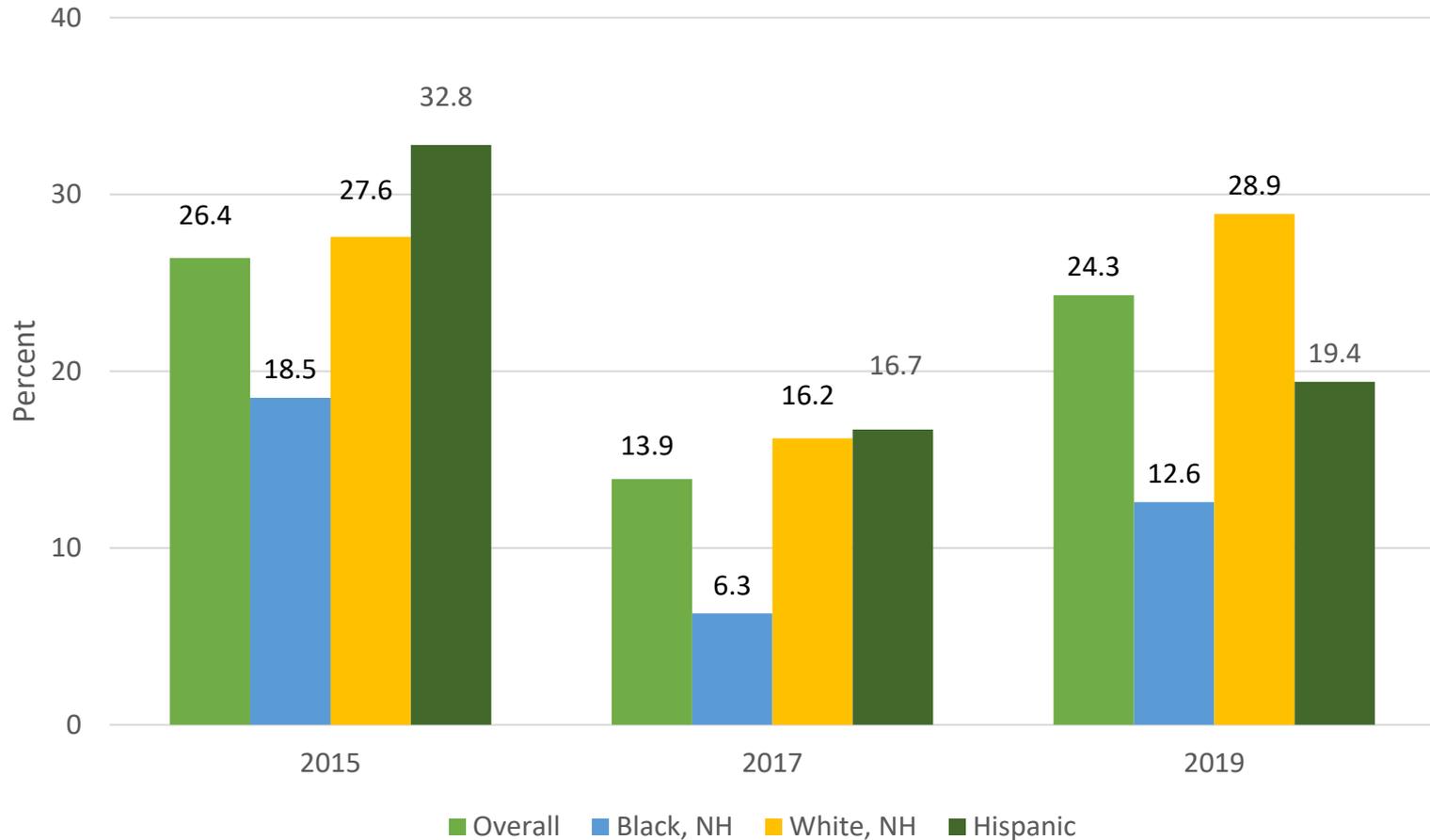


High School students who currently used electronic vapor products (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods) on at least 1 day during the 30 days before the survey.

Source: Youth Risk Behavior Survey (YRBS)

Current Electronic Vapor Product Use among High School Students by Race/Ethnicity

Arkansas 2015-2019

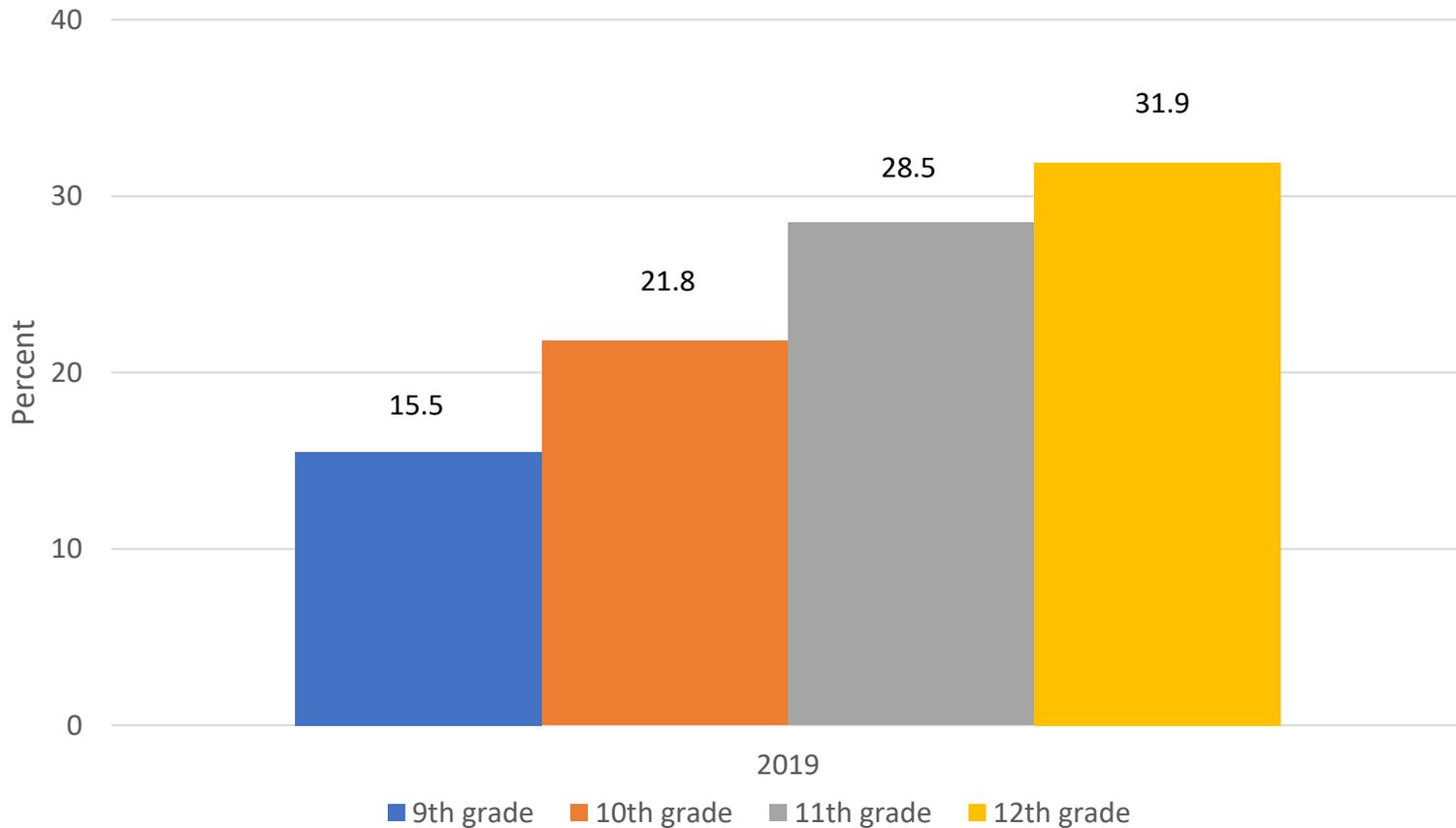


High School students who currently used electronic vapor products (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods) on at least 1 day during the 30 days before the survey.

NH = Non-Hispanic

Source: Youth Risk Behavior Survey (YRBS)

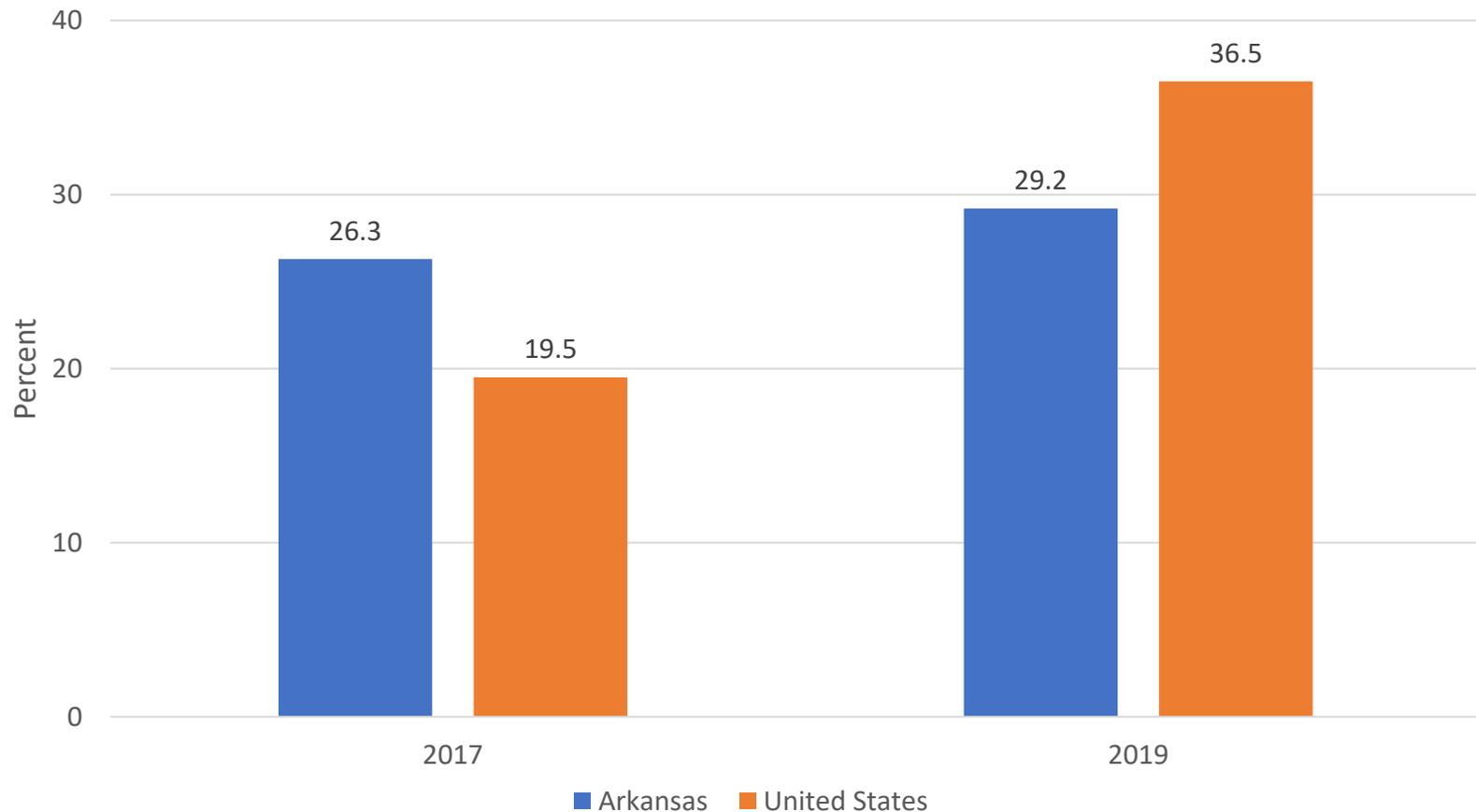
Current Electronic Vapor Product Use among High School Students by Grade Level Arkansas 2019



High School students who currently used electronic vapor products (including e-cigarettes, vapes, vape pens, e-cigars, e-hookahs, hookah pens, and mods) on at least 1 day during the 30 days before the survey.

Source: Youth Risk Behavior Survey (YRBS)

Current Nicotine Product Use among High School Students Arkansas and U.S. 2017-2019

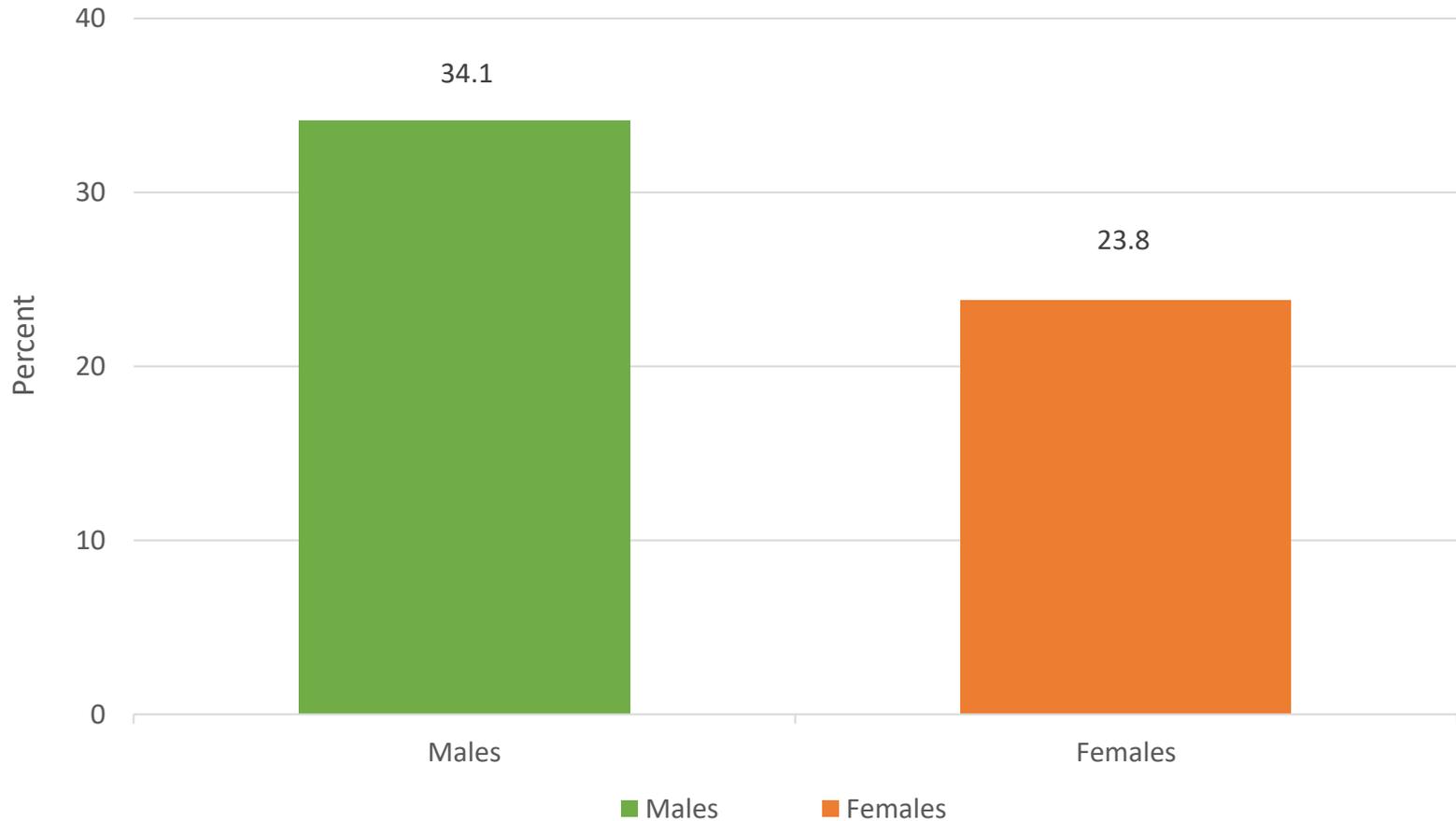


High School students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products on at least 1 day during the 30 days before the survey.

Data not available for years 2009-2015 due to question wording change in 2017.

Source: Youth Risk Behavior Survey (YRBS)

Current Nicotine Product Use among High School Students by Gender Arkansas 2019



High School students who currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products on at least 1 day during the 30 days before the survey. Percent of male or female students that current use nicotine products.

Source: Youth Risk Behavior Survey (YRBS)

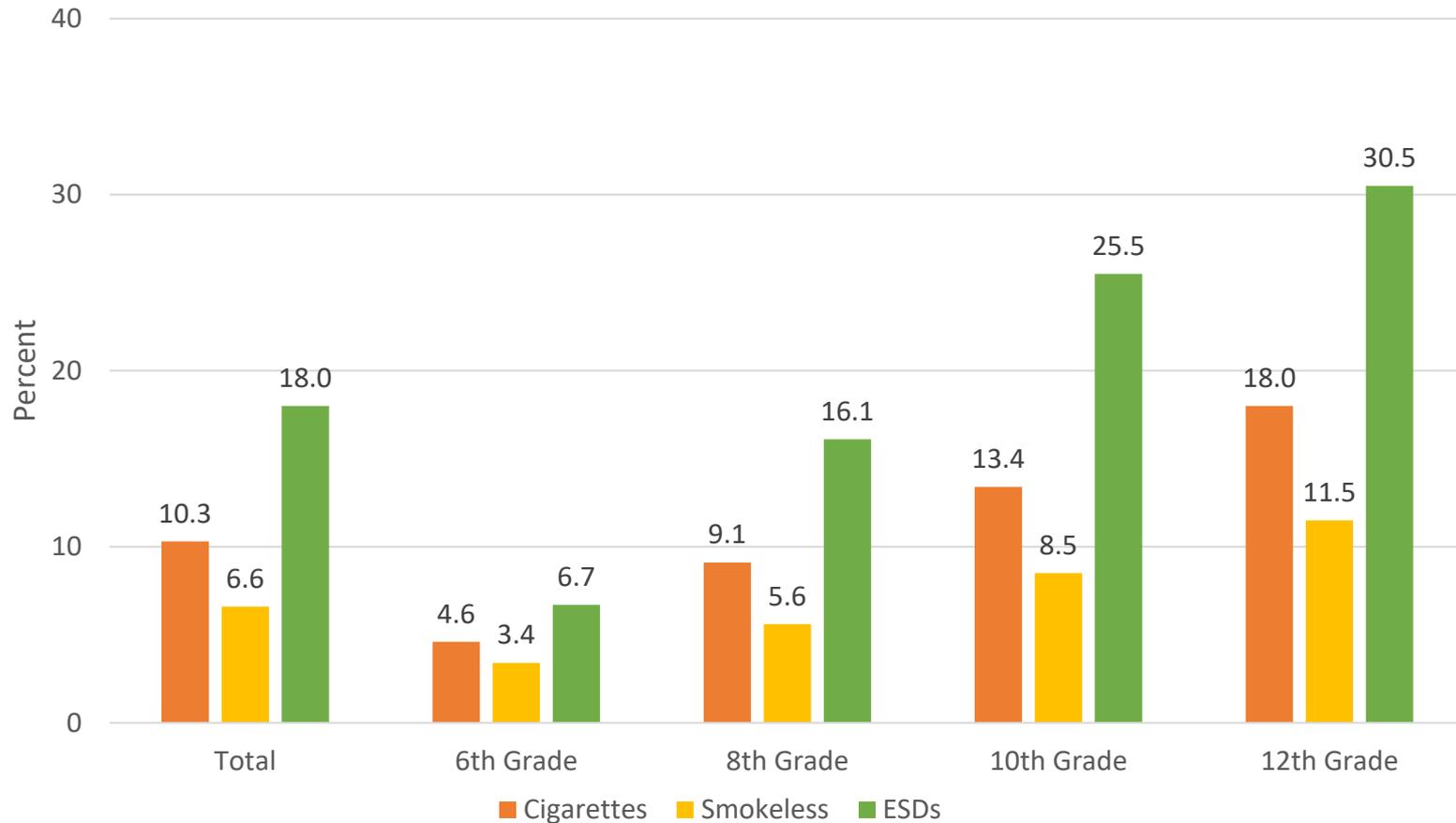
C. Youth Tobacco Use - APNA

Arkansas Prevention Needs Assessment Survey
Students – Grades 6, 8, 10, and 12

* Lifetime use means that the student has ever used the product.

* Current use means that the student has used the product in the past 30 days.

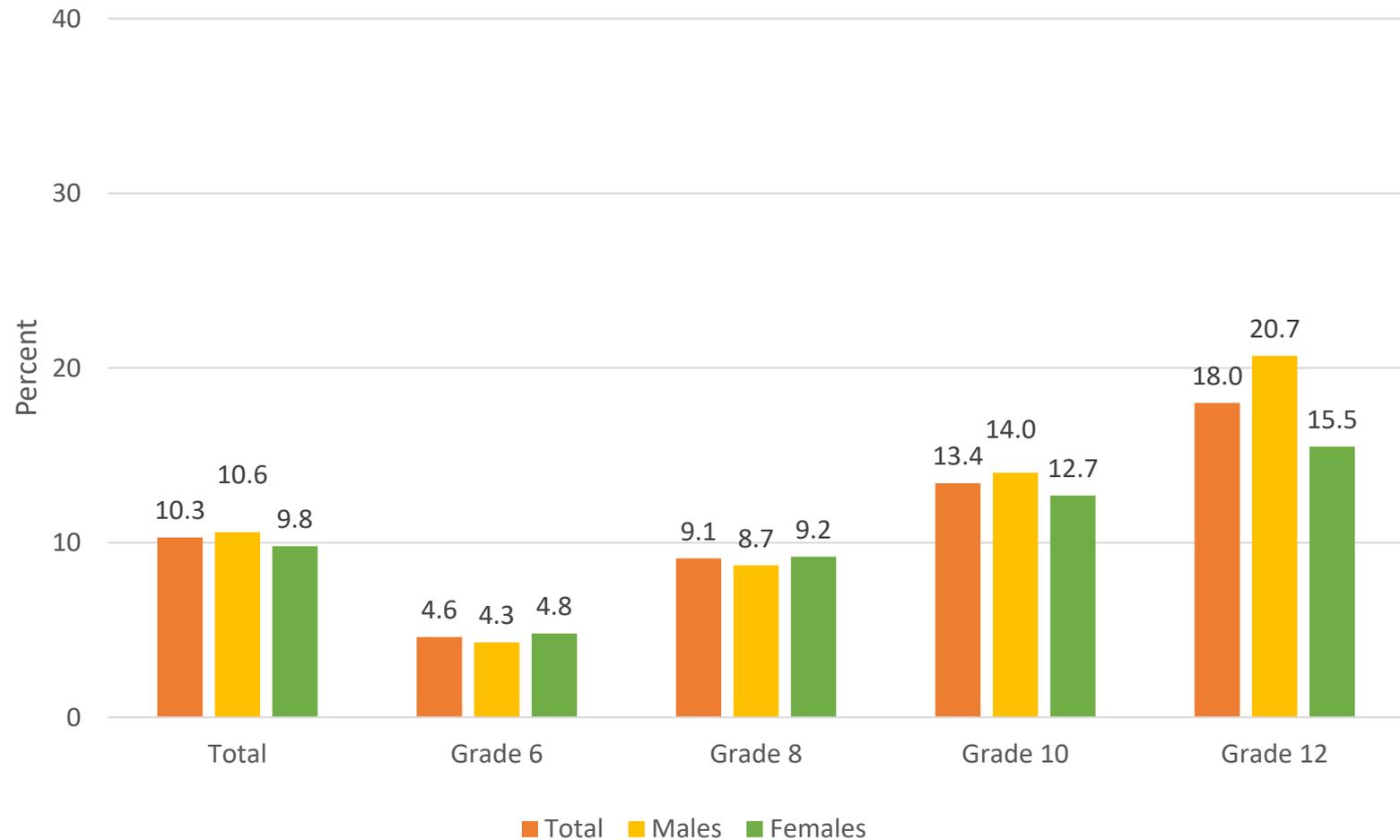
Lifetime Use of Tobacco Products among Youth Arkansas 2021



Percentage of Arkansas Respondents Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During Their Lifetime by Grade: Cigarettes, Smokeless Tobacco, or Electronic Smoking Devices (ESDs).

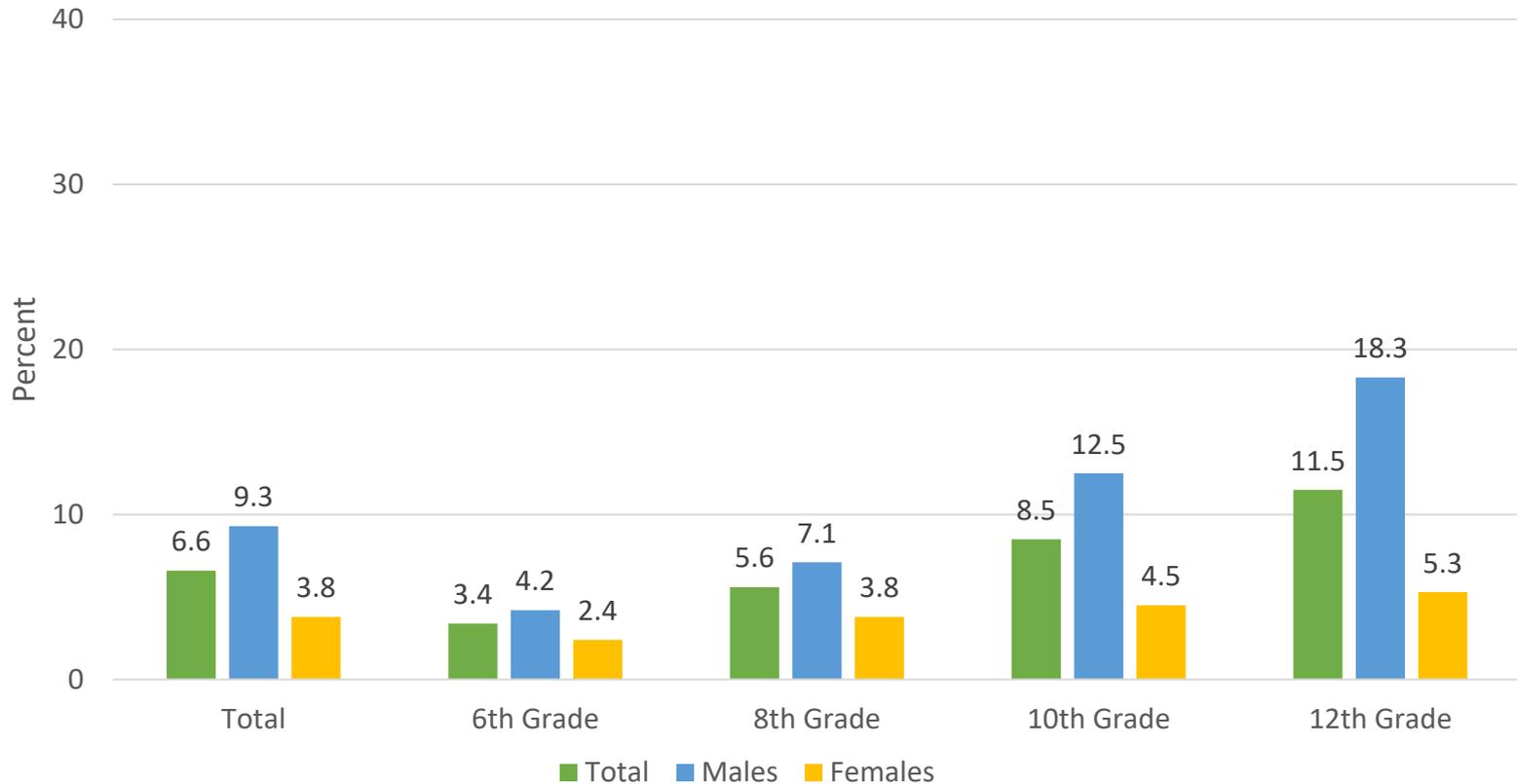
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Lifetime Use of Cigarettes among Youth Arkansas 2021



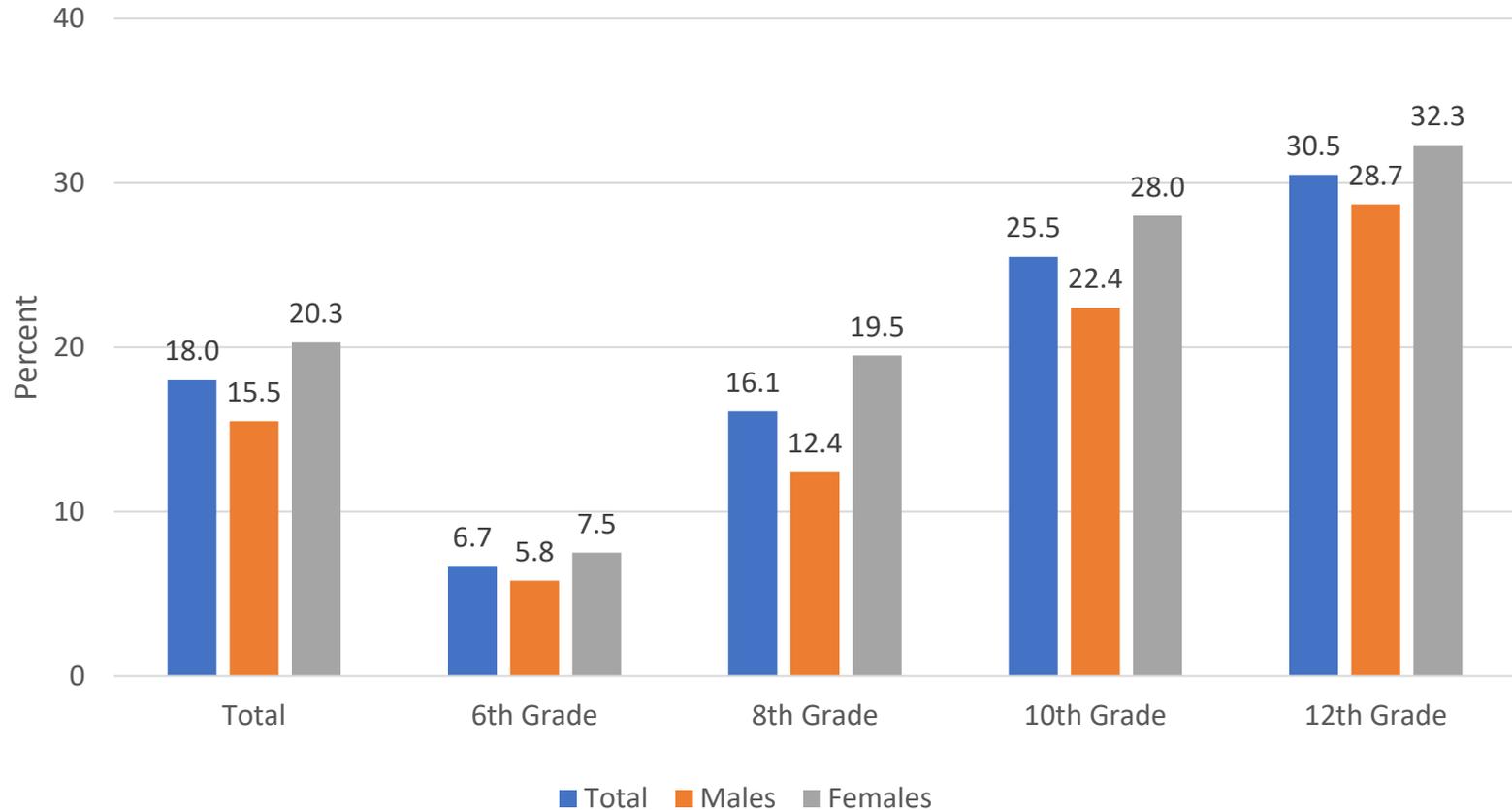
Percentage of Males/Females by Grade Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During Their Lifetime: Cigarettes.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Lifetime Use of Smokeless Tobacco among Youth Arkansas 2021

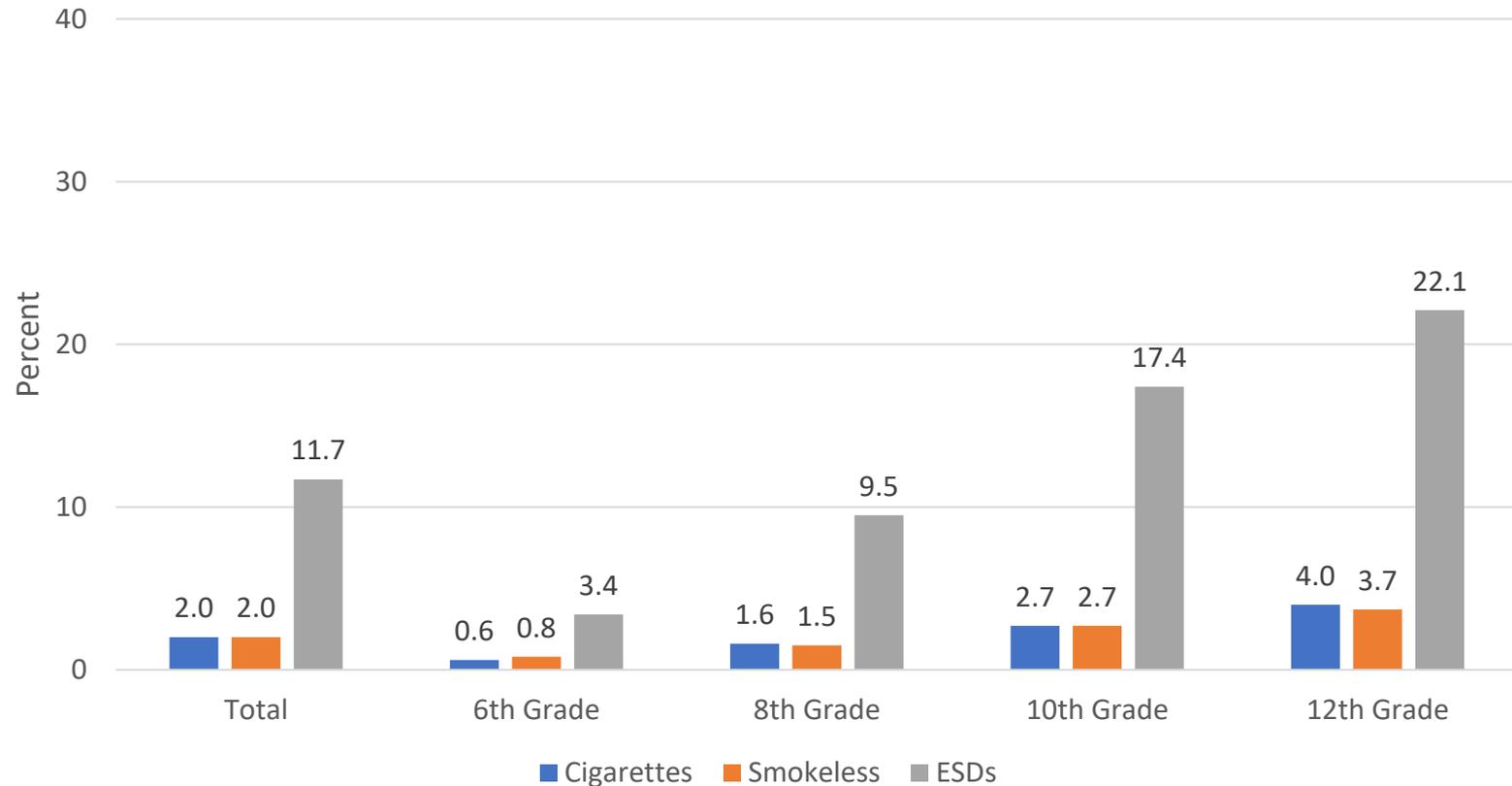


Percentage of Males/Females by Grade Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During Their Lifetime: Smokeless Tobacco.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Lifetime Use of Electronic Smoking Devices among Youth Arkansas 2021



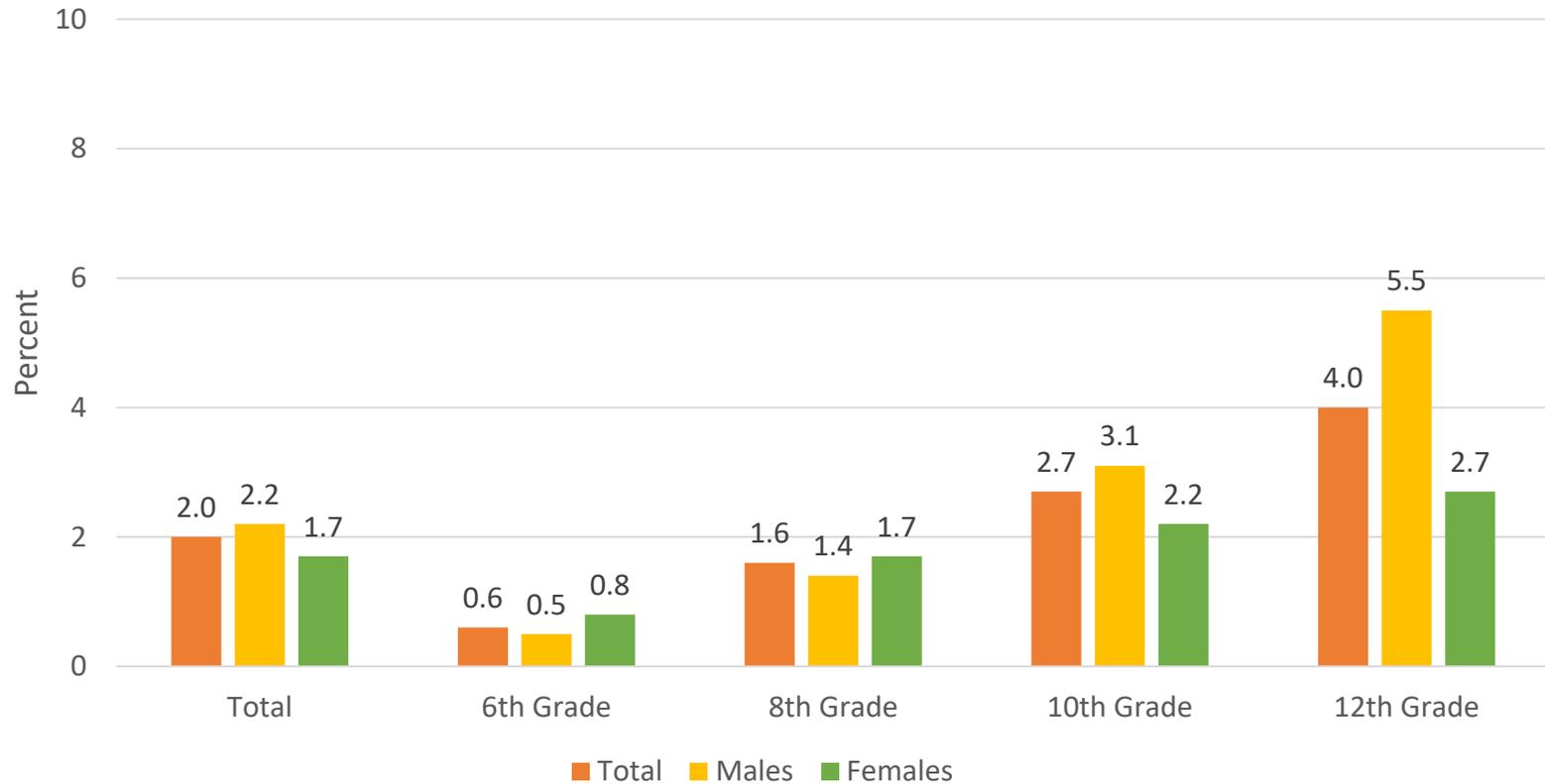
Current Use of Tobacco Products among Youth Arkansas 2021



Percentage of Arkansas Respondents Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days by Grade: Cigarettes, Smokeless Tobacco, and Electronic Smoking Devices (ESDs).

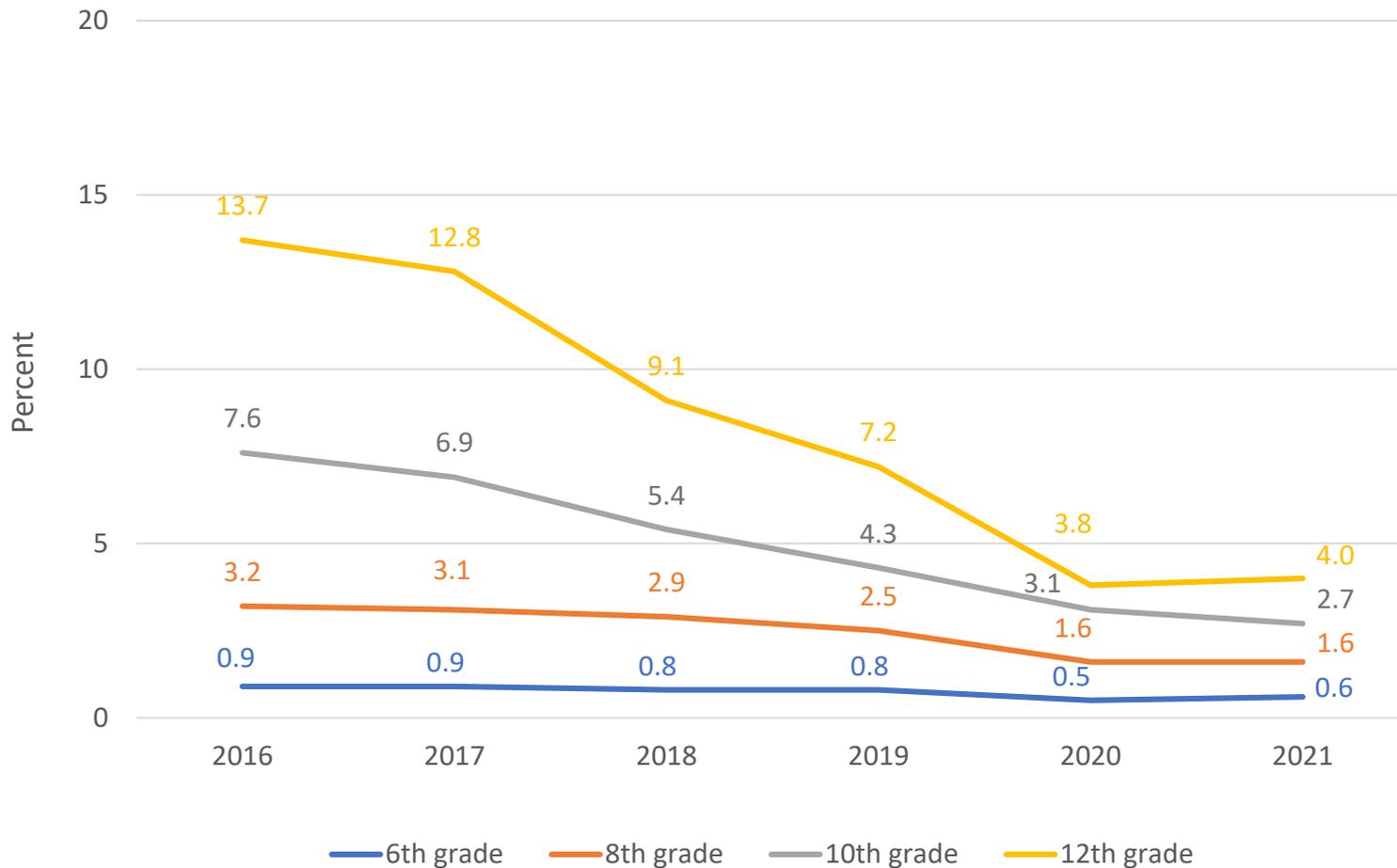
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Use of Cigarettes among Youth Arkansas 2021



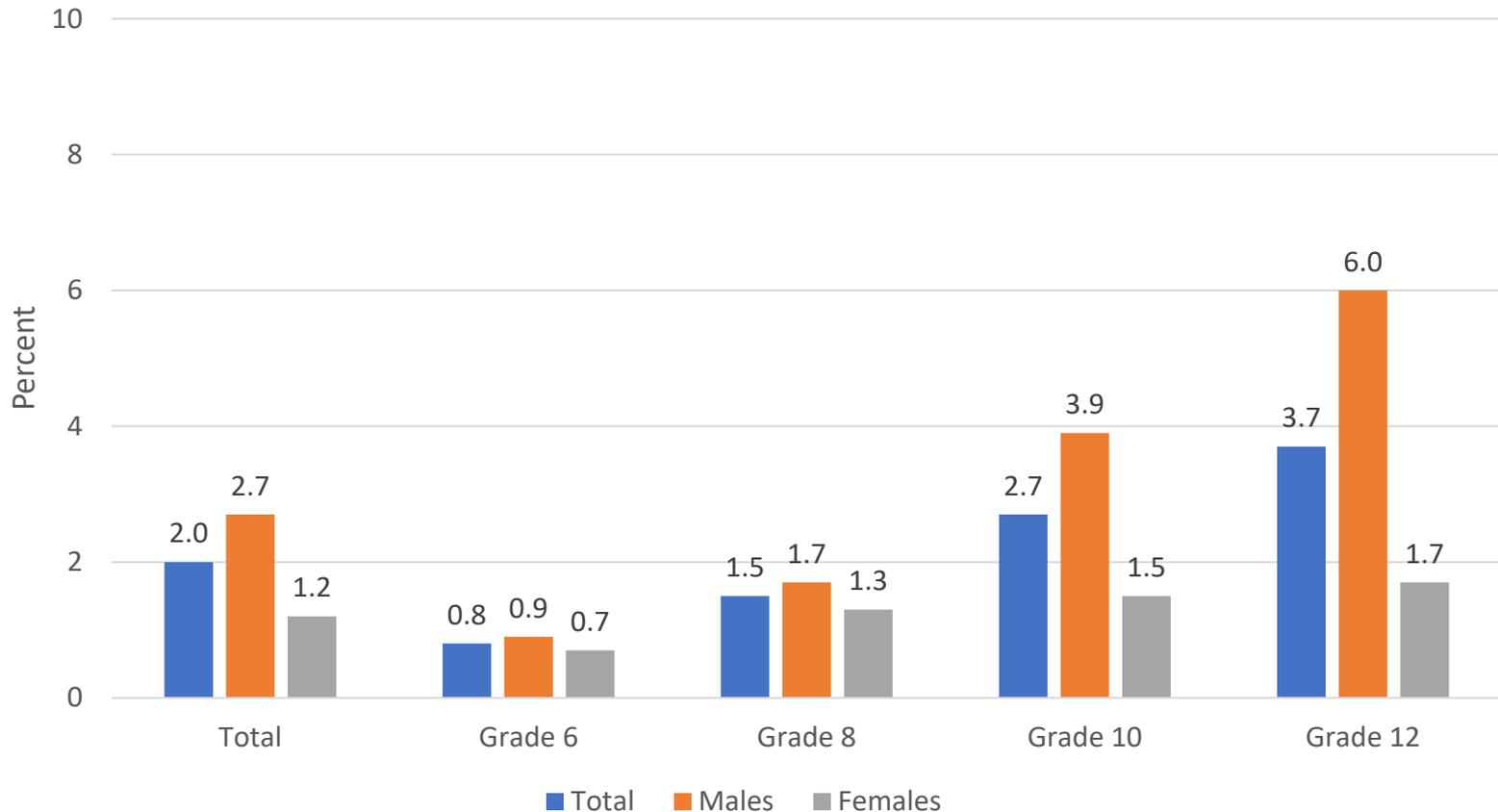
Percentage of Males/Females by Grade Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days: Cigarettes.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Cigarette Smoking among Youth by Grade Level Arkansas 2016-2021



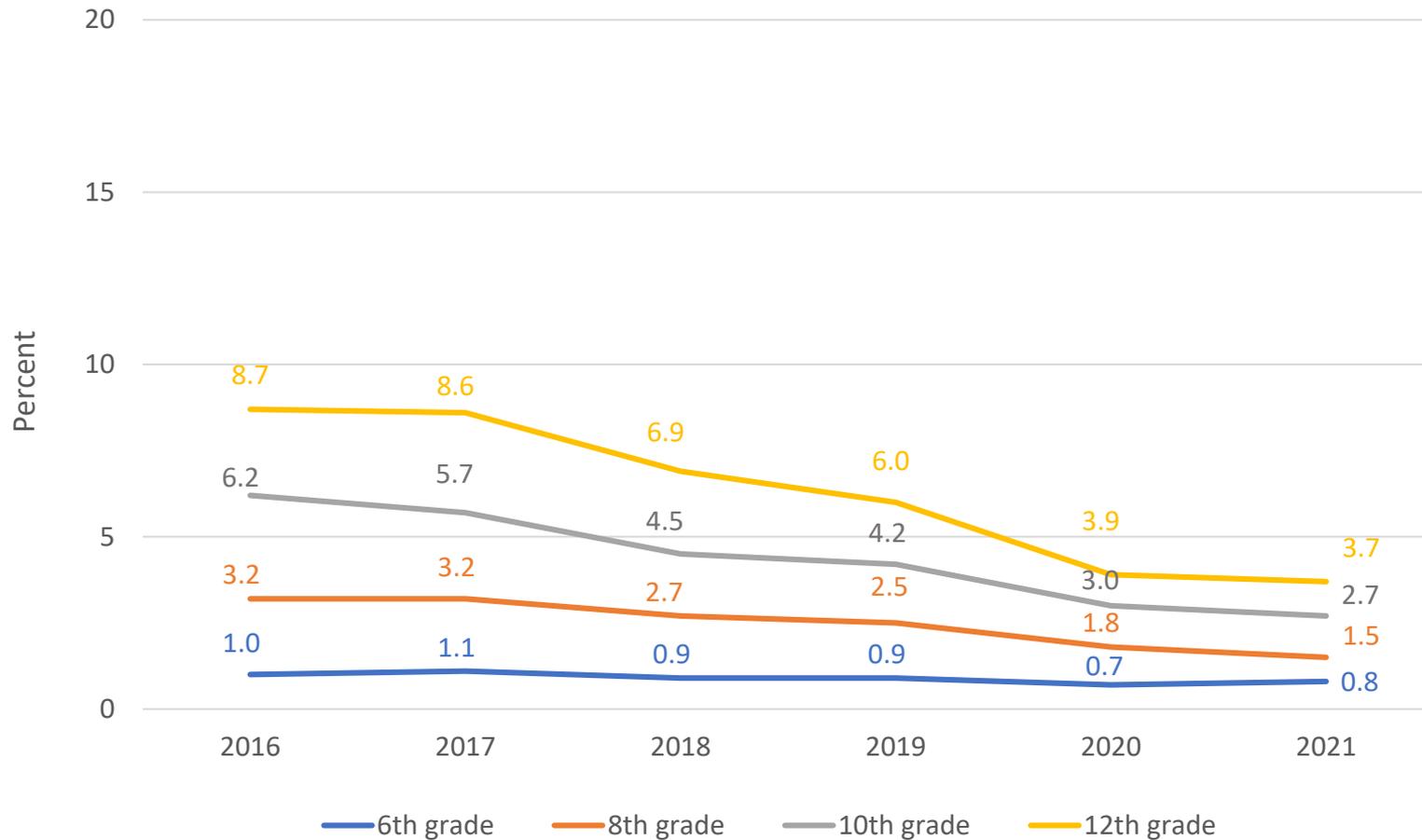
Percentage of Arkansas Respondents Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days by Grade: Cigarettes.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Use of Smokeless Tobacco among Youth Arkansas 2021



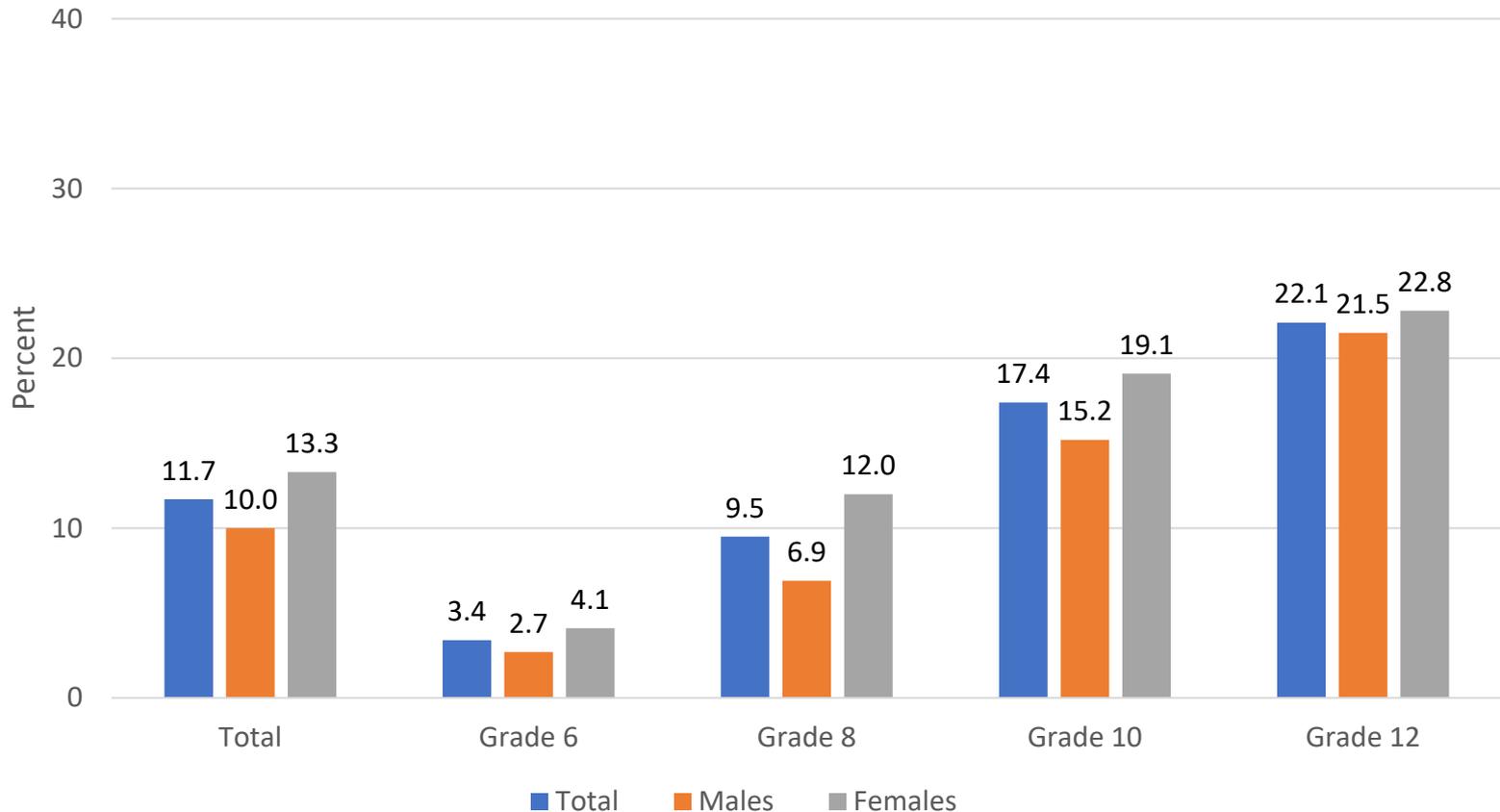
Percentage of Males/Females by Grade Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days: Smokeless Tobacco.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Smokeless Tobacco Use among Youth by Grade Level Arkansas 2016 - 2021



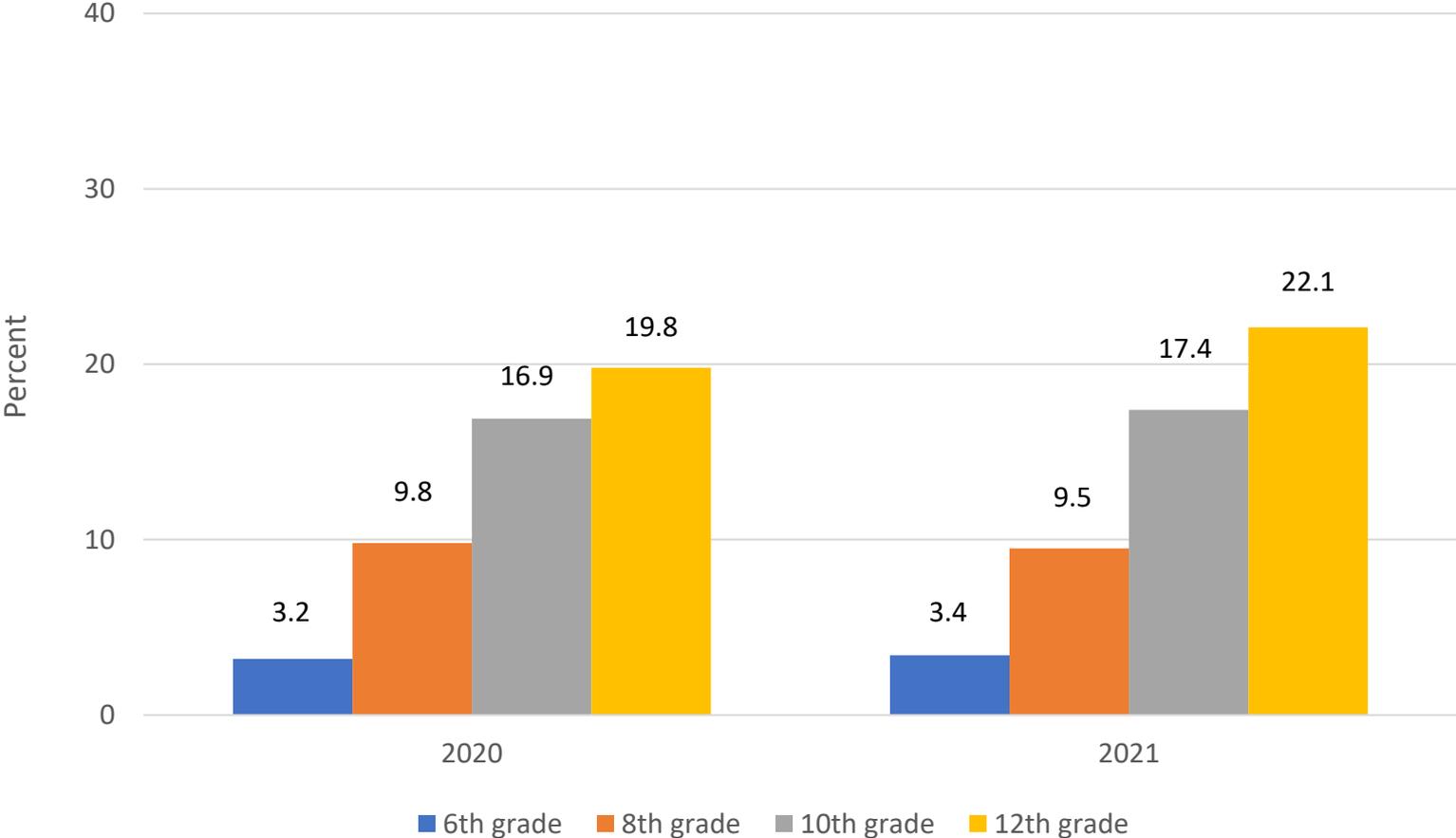
Percentage of Arkansas Respondents Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days by Grade.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Use of Any Vaping Product among Youth Arkansas 2021



Percentage of Males/Females by Grade Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days: Electronic Smoking Devices (ESDs).
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Use of Any Vaping Product among Youth by Grade Level Arkansas 2020 - 2021

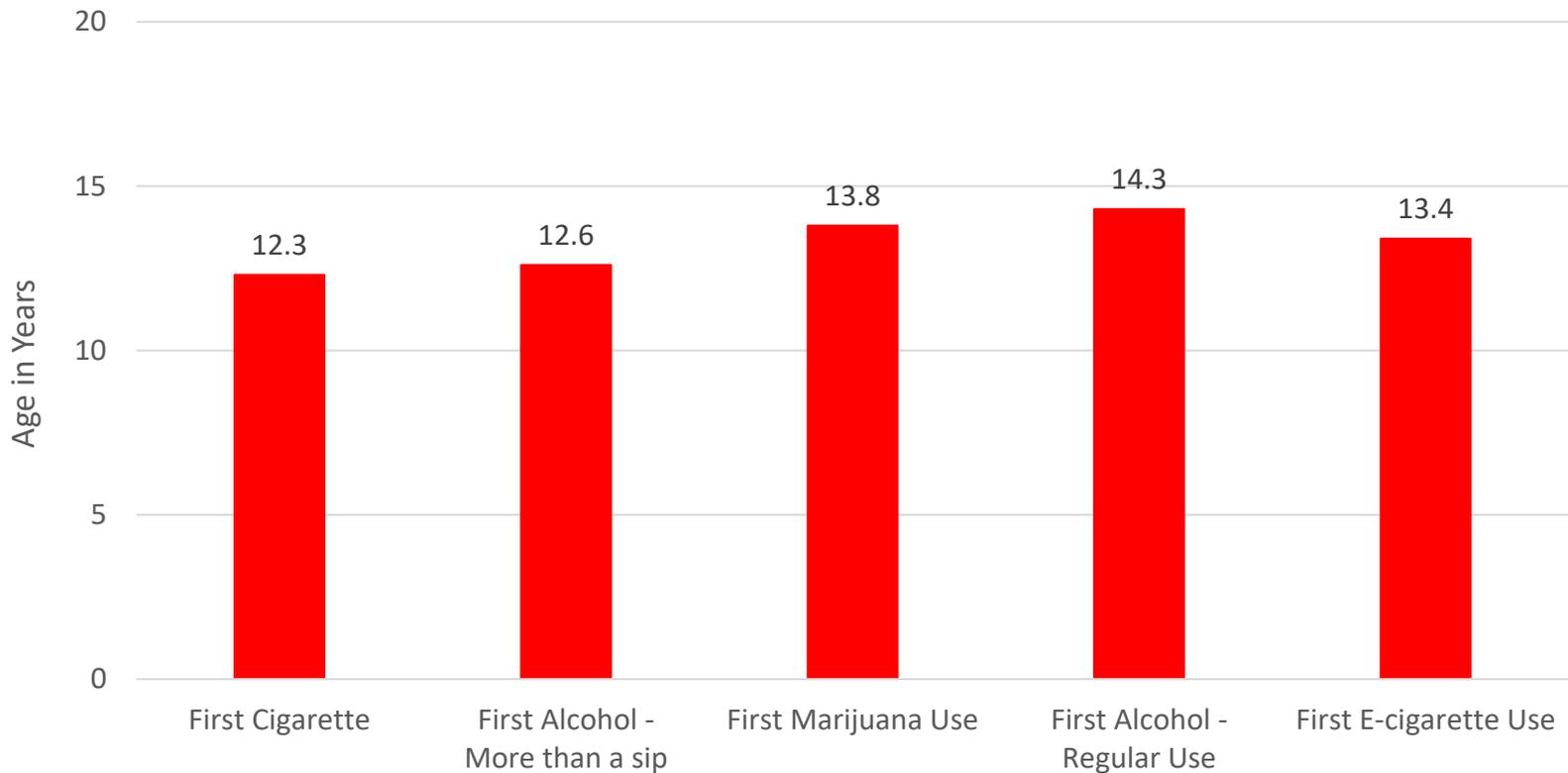


Percentage of Arkansas Respondents Who Used Alcohol, Tobacco, and Other Drugs (ATODs) During The Past 30 Days by Grade: Electronic Smoking Devices (ESDs).

Note: Data not available prior to 2020.

Source: Arkansas Prevention Needs Assessment Survey (APNA)

Average Age of Initiation among Youth Arkansas 2021



Age of Initiation: First Cigarette Use, First Marijuana Use, First Alcohol – More Than Sip, First Regular Alcohol Use, First E-cigarette Use.
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Rules Regarding Smoking in the Youth's Home or Family Car

Arkansas 2021

Grade	Smoking is not allowed anywhere inside your home or car	Smoking is allowed in some places and at some times or in some cars	Smoking is allowed anywhere inside the home or cars	There are no rules about smoking inside the home or cars	I don't know
6	59.8%	9.2%	2.4%	3.4%	25.2%
8	61.3%	9.0%	2.6%	4.9%	22.2%
10	65.2%	9.1%	2.4%	5.3%	18.0%
12	68.5%	8.6%	2.7%	5.5%	14.6%
Total	63.0%	9.0%	2.5%	4.7%	20.8%

Question: Which statement best describes rules about smoking inside your home or your family cars?
 Source: Arkansas Prevention Needs Assessment Survey (APNA)

Youth Taught in School about the Dangers of Tobacco Use

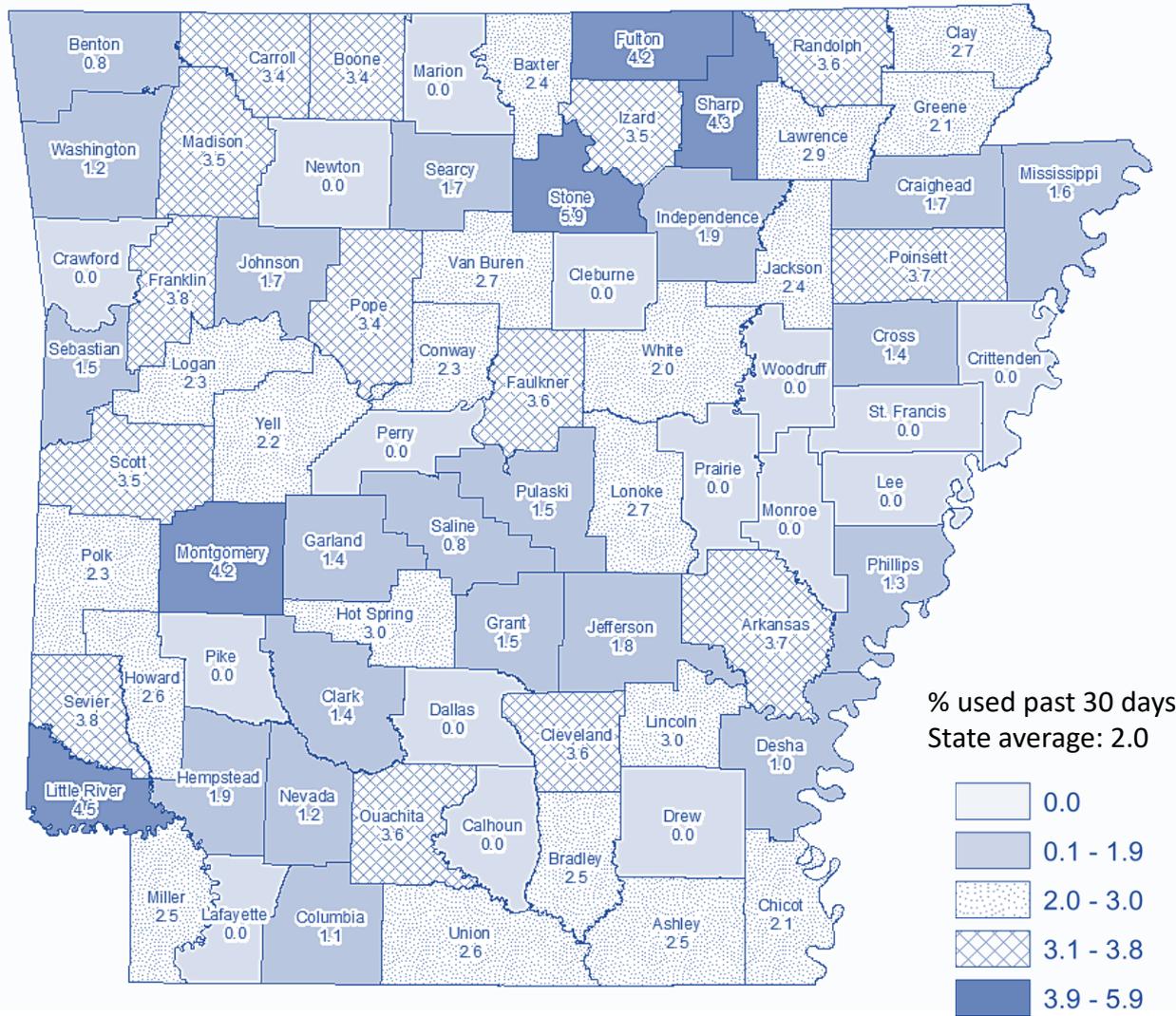
Arkansas 2021

Grade	Never	Rarely	Sometimes	Often	Almost Always
6	32.5%	20.2%	24.8%	13.9%	8.5%
8	31.3%	23.3%	25.6%	13.6%	6.3%
10	42.1%	23.5%	21.0%	9.3%	4.1%
12	48.4%	21.1%	18.9%	8.2%	3.4%
Total	37.1%	22.1%	23.1%	11.8%	5.9%

Question: During this school year, were you taught in any of your classes about the dangers of tobacco use?

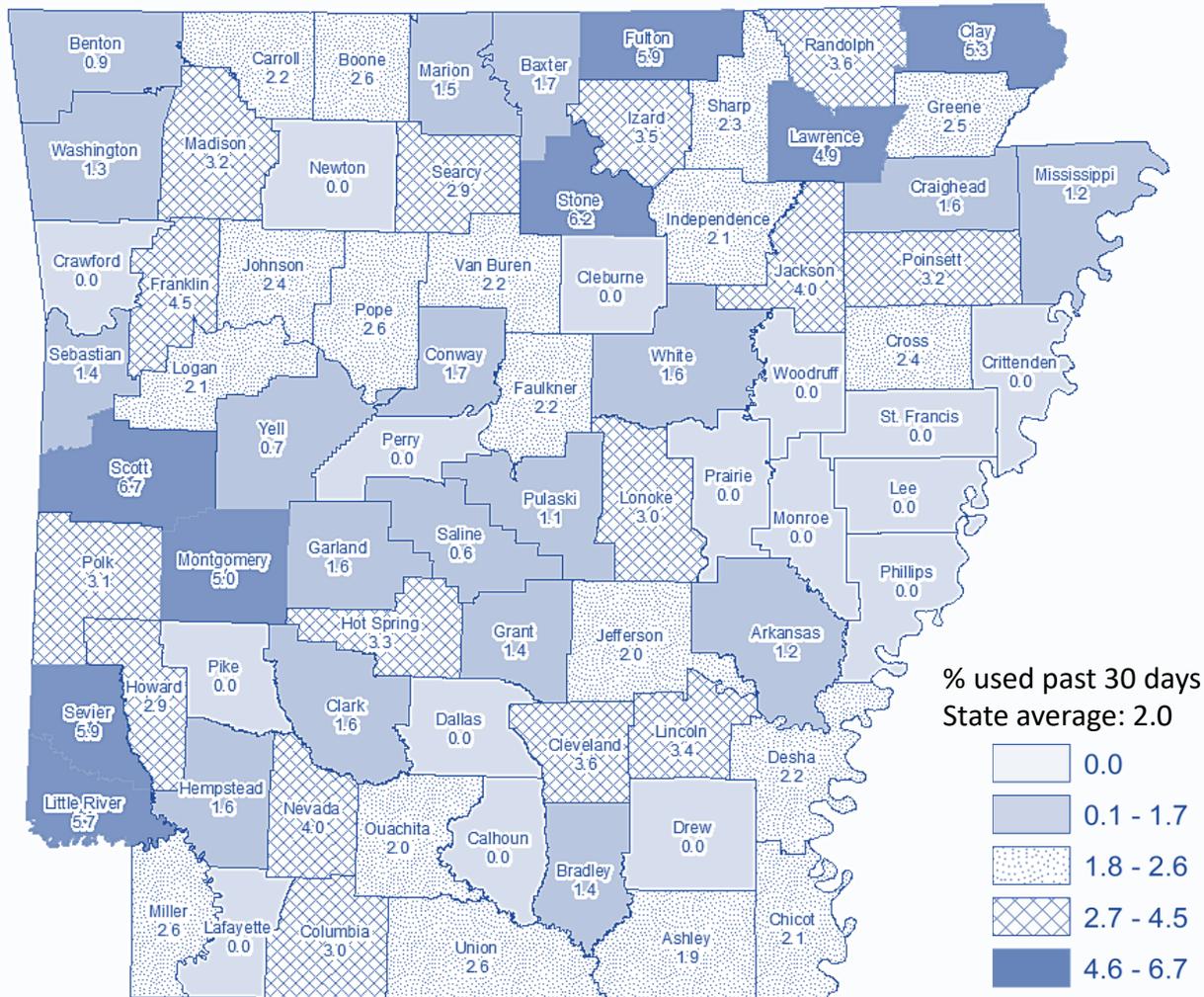
Source: Arkansas Prevention Needs Assessment Survey (APNA)

Current Cigarette Use Among Youth Arkansas 2021



Date: June 14, 2022
 Source: Arkansas Prevention Needs Assessment and the Arkansas Department of Education
 Map created by: Amie Lein, M.S., CHES, TTS

Current Smokeless Tobacco Use Among Youth Arkansas 2021

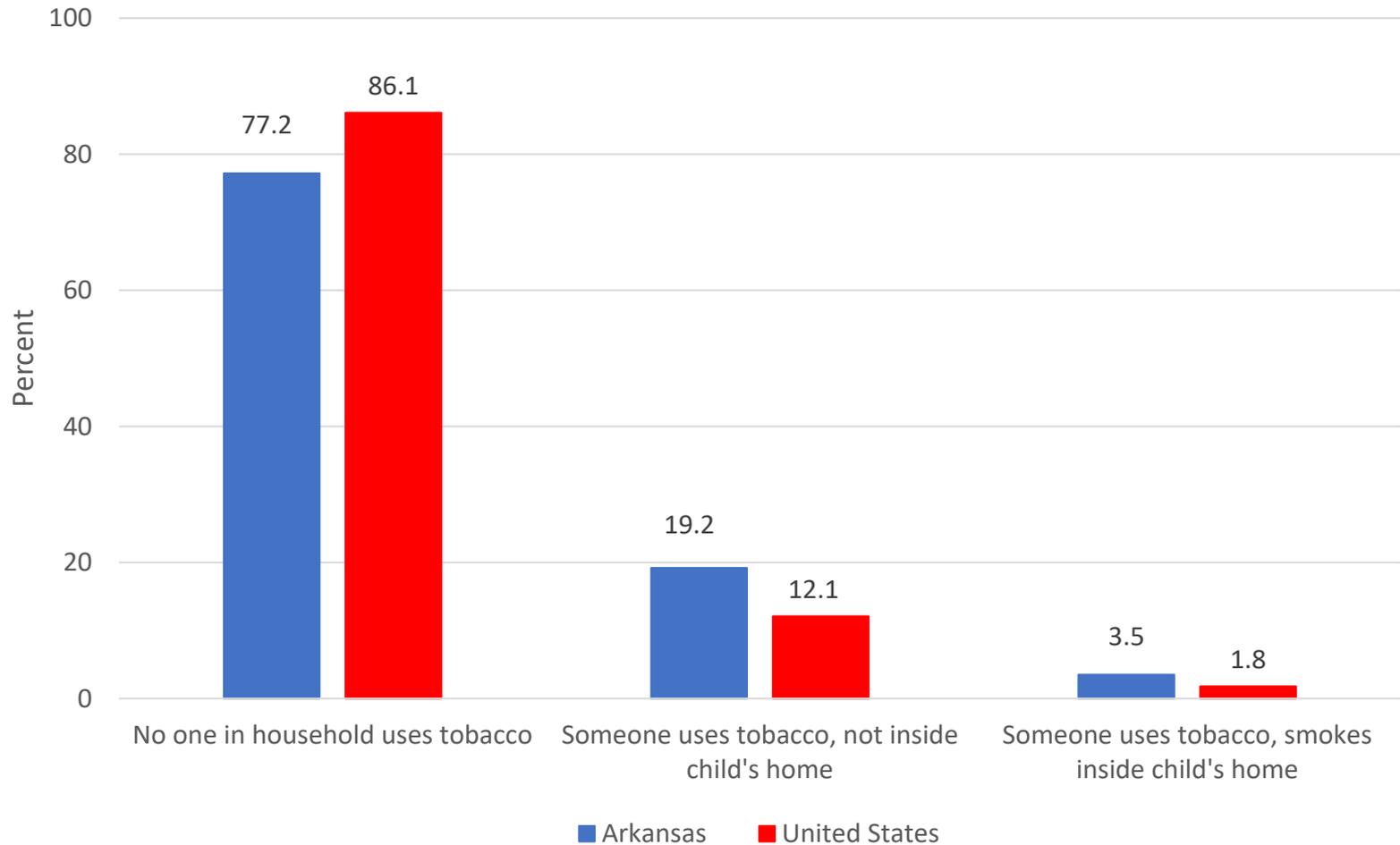


Date: June 14, 2022
 Source: Arkansas Prevention Needs Assessment and the Arkansas Department of Education
 Map created by: Amie Lein, M.S., CHES, TTS

D. Tobacco Use In Child's Home

National Survey of Children's Health

Smoking in Households with Children Arkansas and U.S. 2019-2020

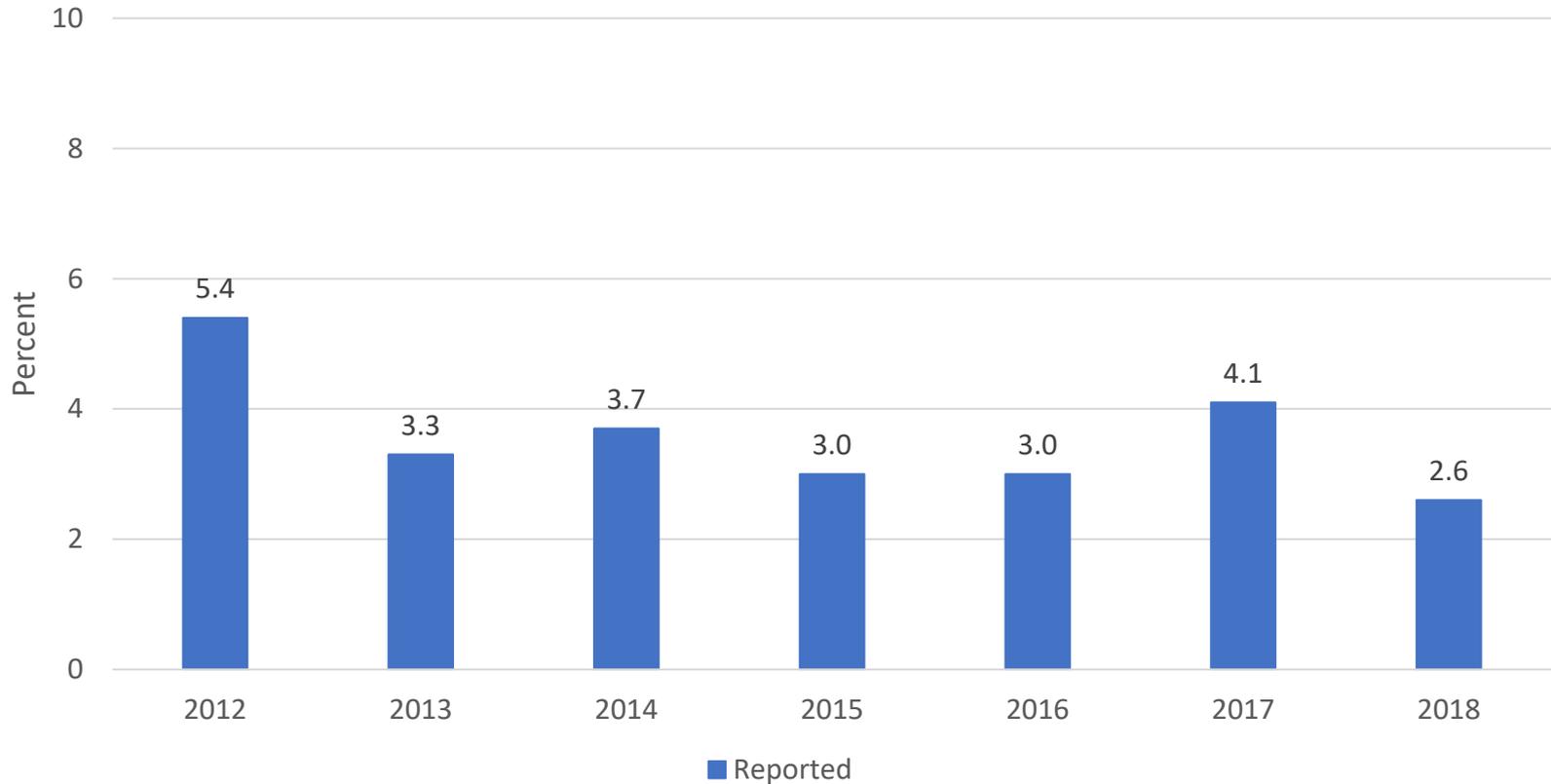


Children are defined as between the ages of 0 and 17. Parents were asked the question: Does anyone smoke inside this child's home?
Source: National Survey of Children's Health (NSCH)

E. Tobacco Permits and Cigarette Sales to Minors Compliance Checks

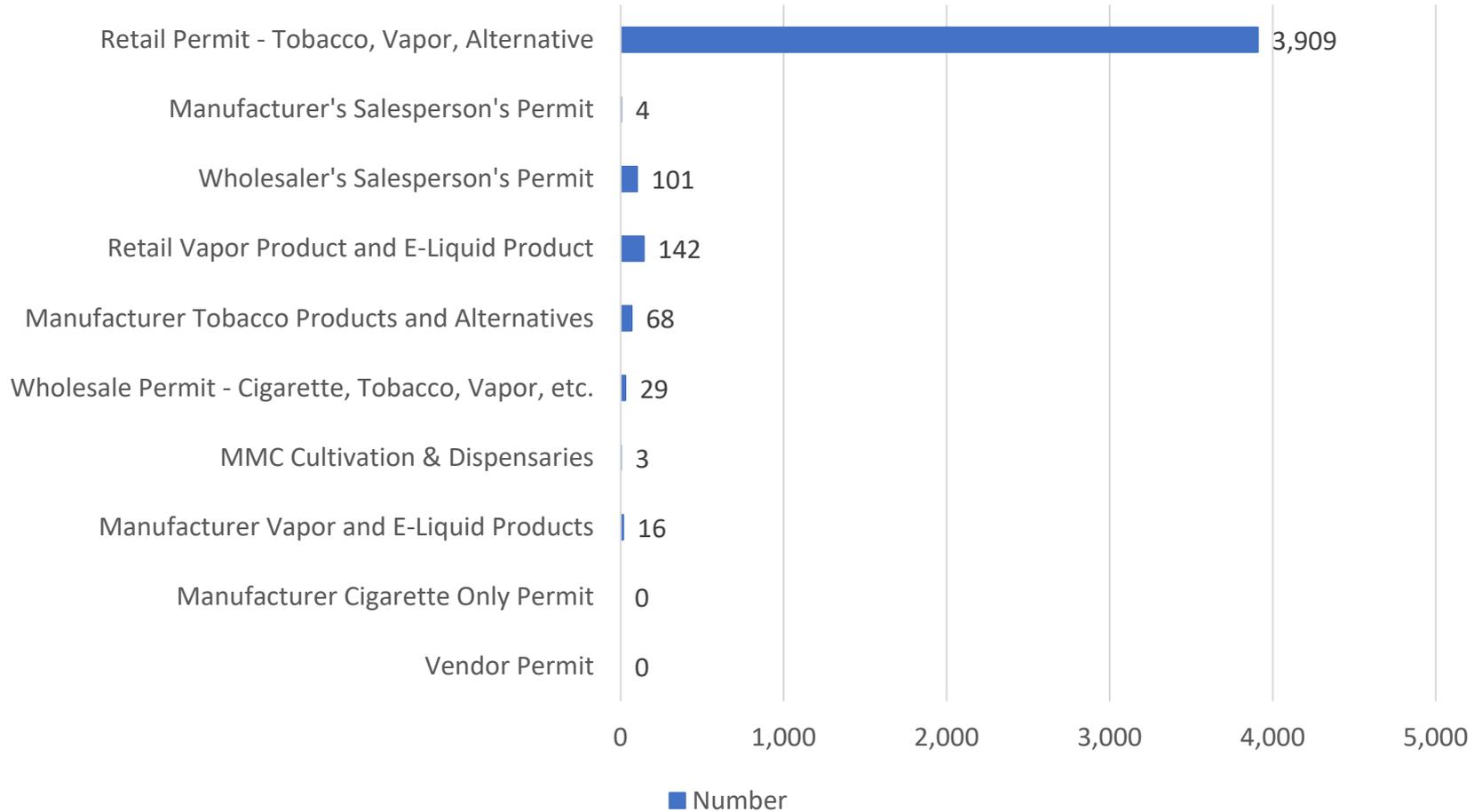
Reported Retailer Violation Rates by Year

Arkansas 2012-2018



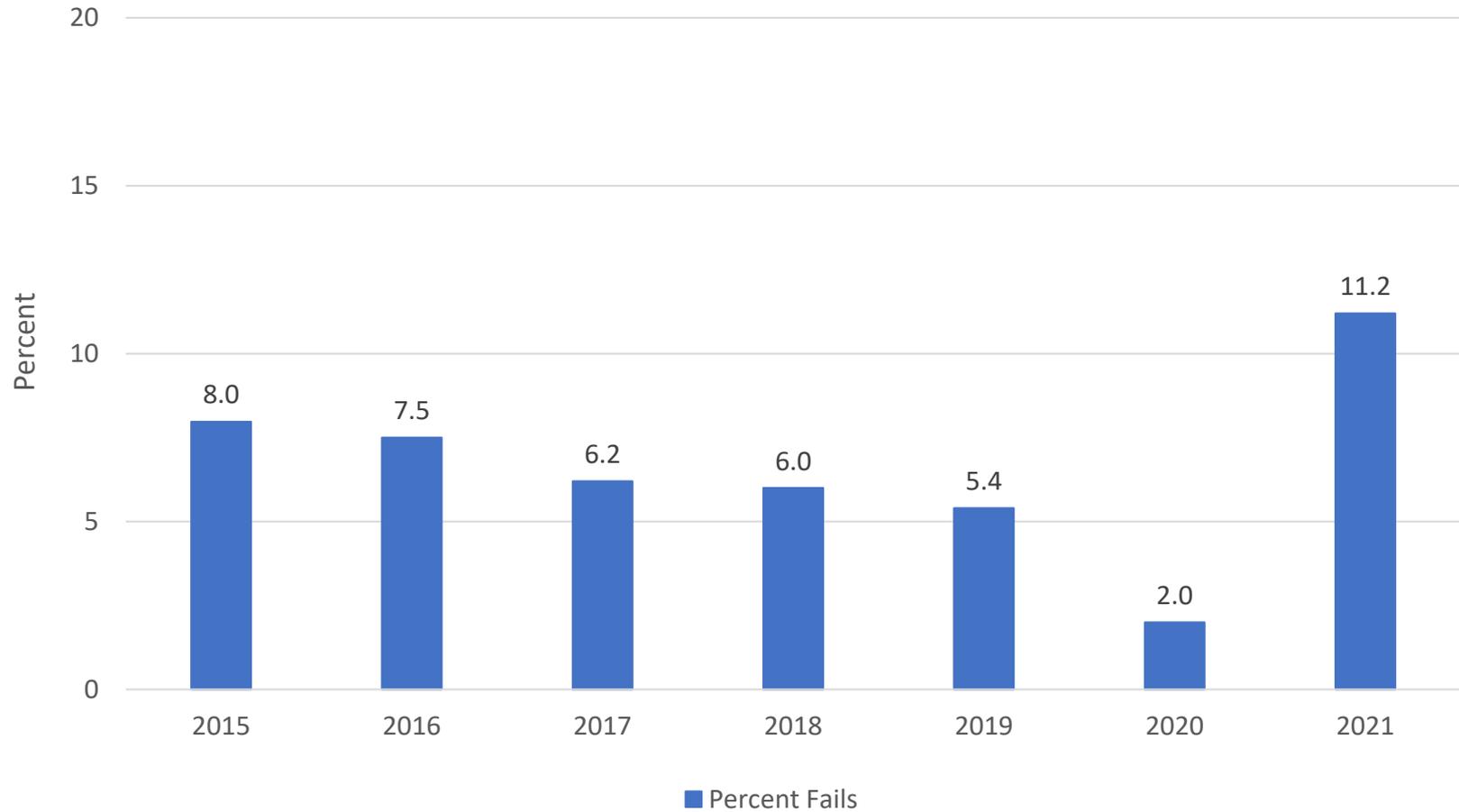
Source: U. S. Department of Health & Human Services, Substance Abuse and Mental Health Services Administration Compliance Checks Synar Survey. Note: As of FFY 2003, the target for all states is 20.0 percent.

Number of Arkansas Tobacco Permits by Type January 2022



Permit Holder Search conducted on January 25, 2022.
Source: Arkansas Tobacco Control (ATC)

Sales to Minors Compliance Check Violations by Year Arkansas Tobacco Control (ATC) FY 2015-2021



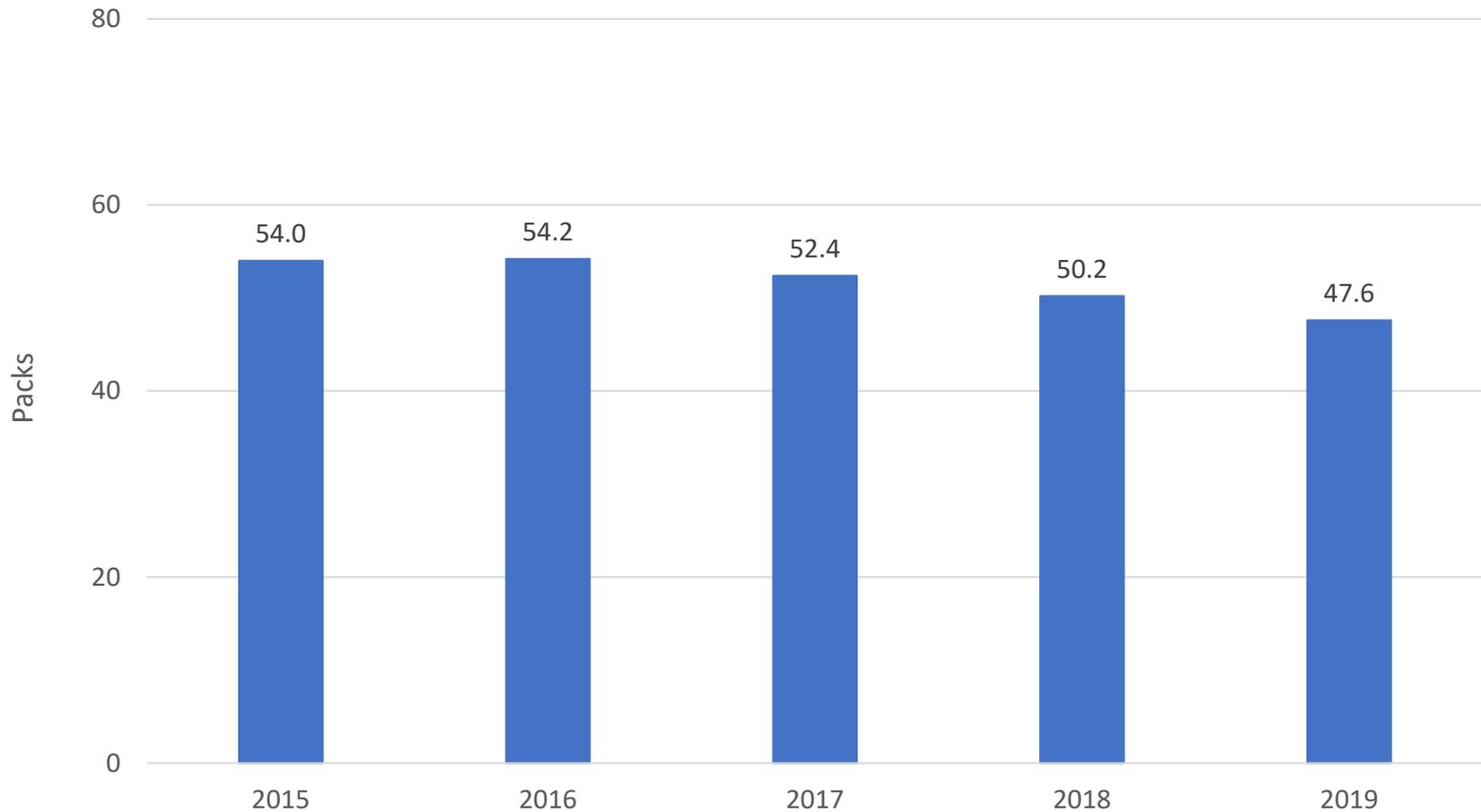
FY = Fiscal Year.

Source: Arkansas Tobacco Control (ATC) as of January 20, 2021.

F. Cigarette Consumption and Revenues from Excise Taxes

Number of Cigarette Packs Sold Per Adult by Year

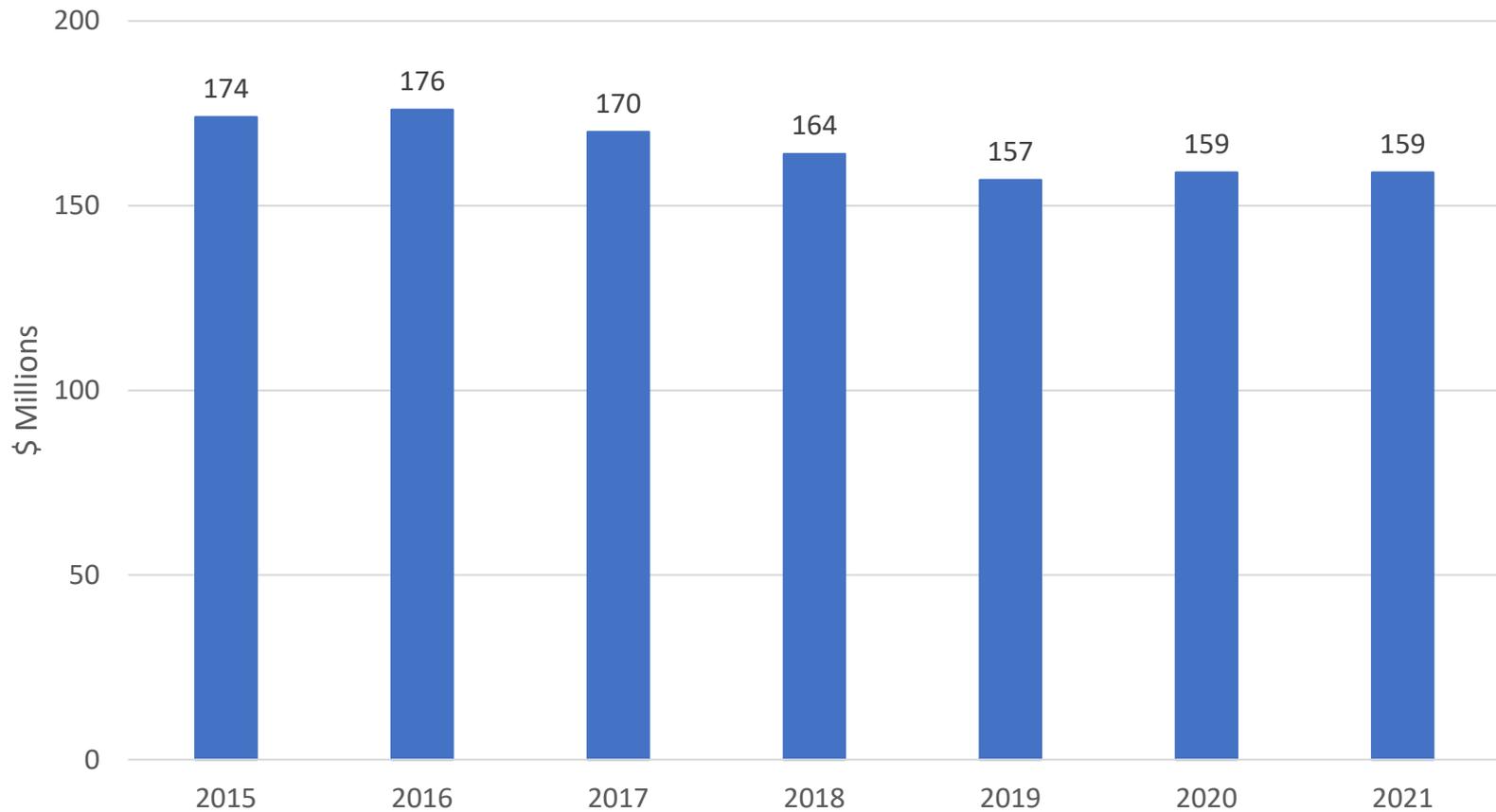
Arkansas 2015-2019



Source: Orzechowski & Walker, The Tax Burden on Tobacco: Historical Compilation (Updated March 22, 2021)

Cigarette Excise Tax Revenue by Year

Arkansas 2015-2021

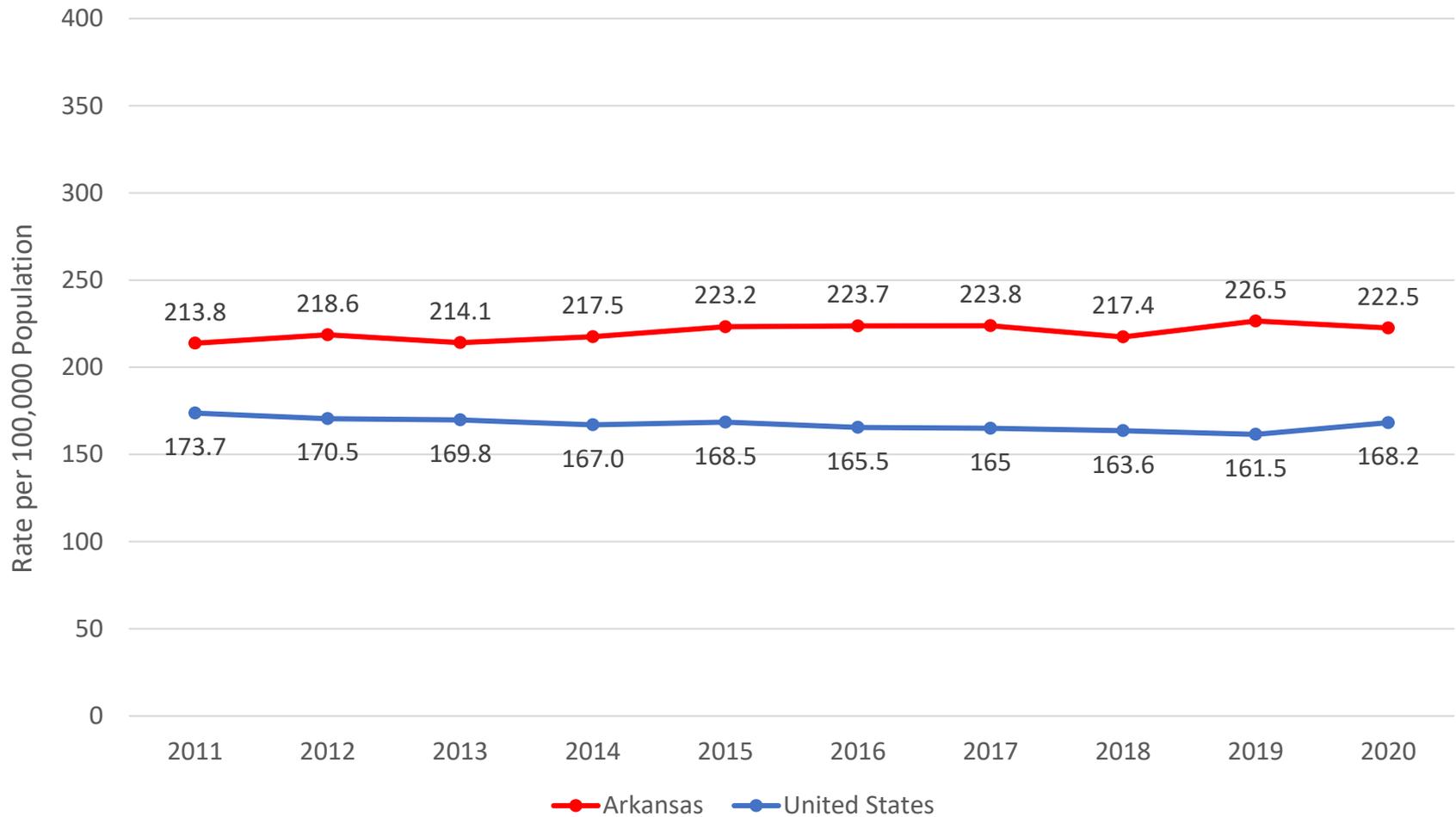


Source: Arkansas Department of Finance & Administration

SECTION II
Impact of Tobacco Use:
Heart Disease and Stroke

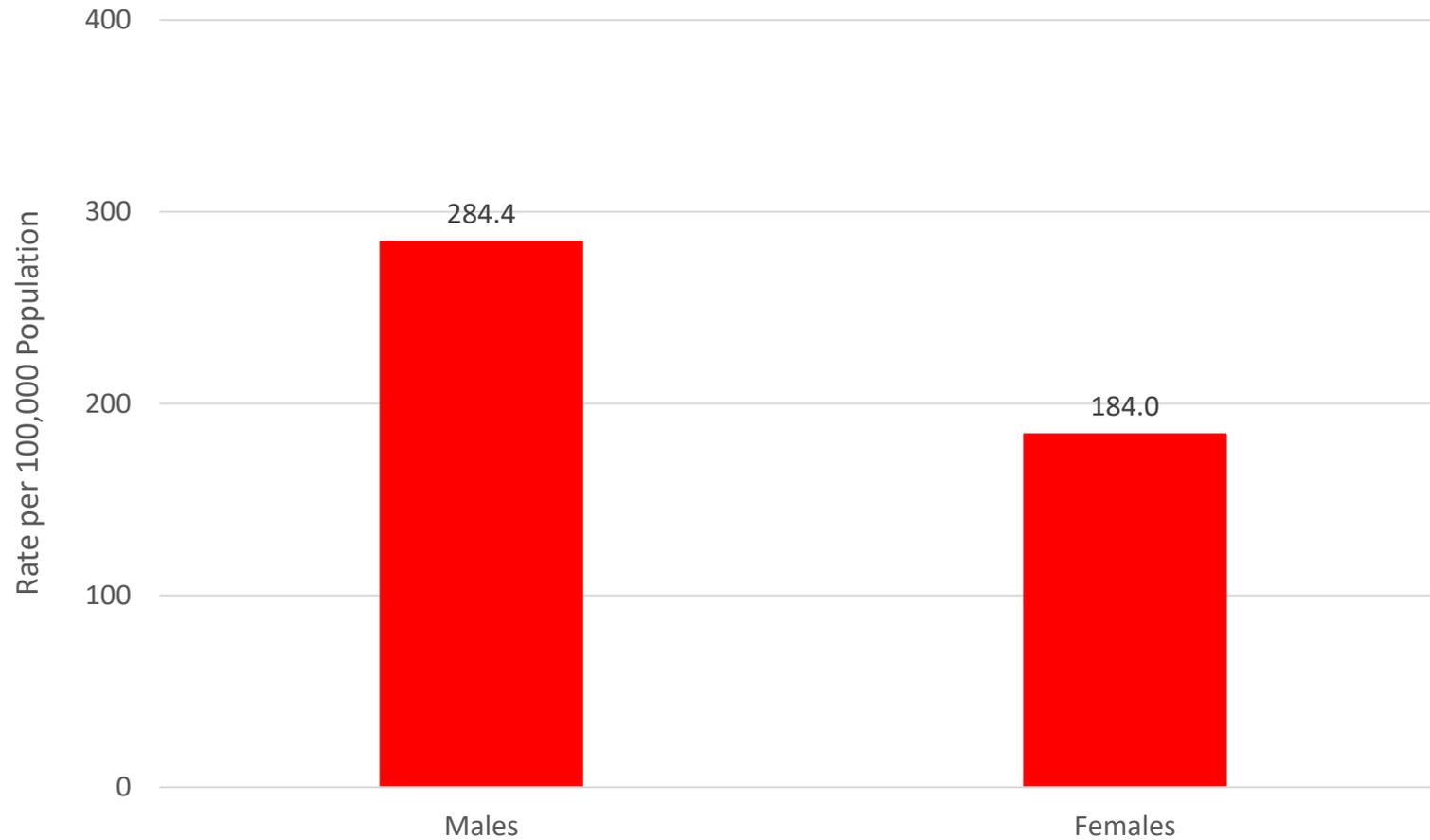
A. Heart Disease Mortality

Age-Adjusted Heart Disease Mortality Arkansas and U.S. 2011 - 2020



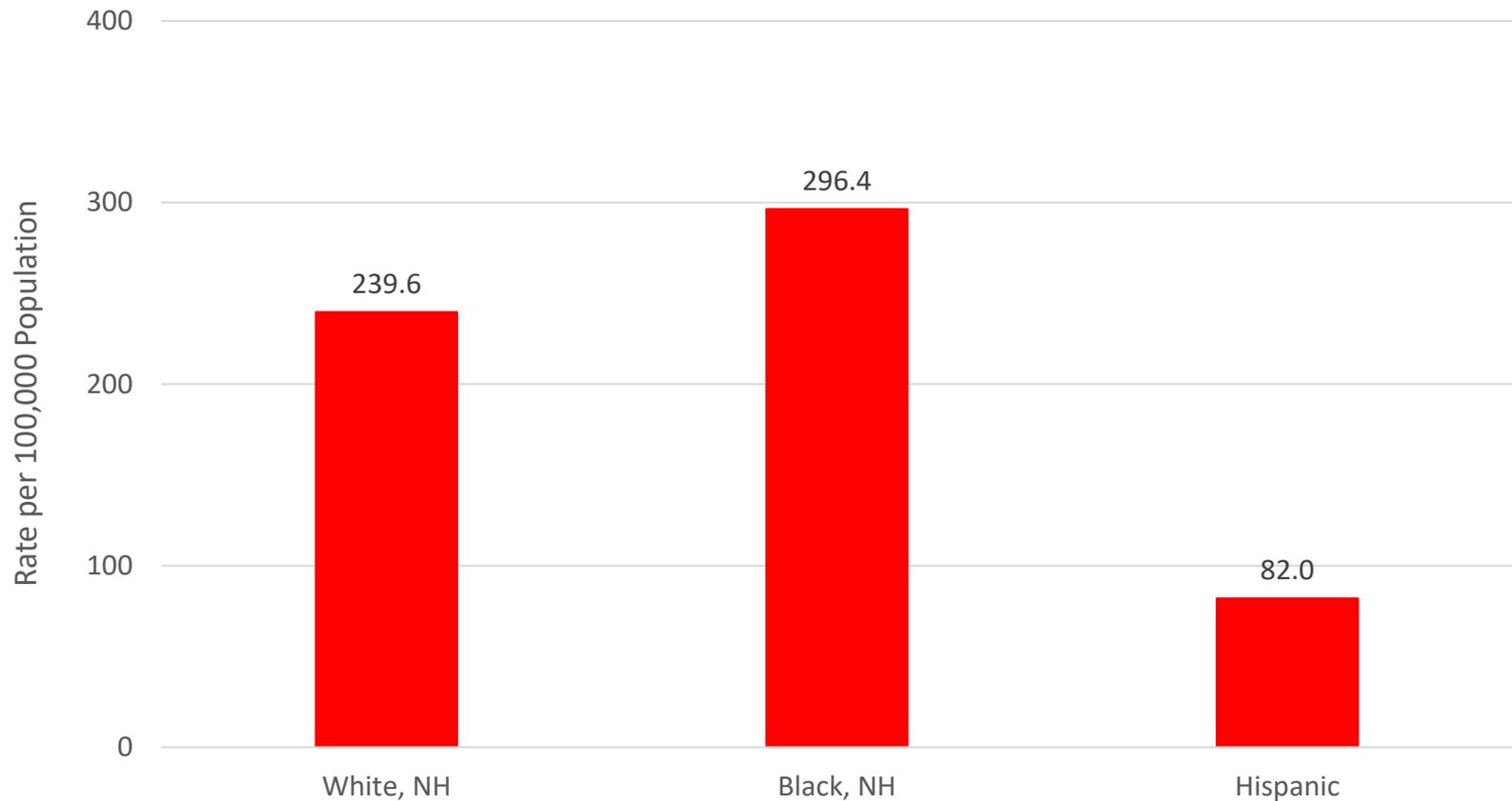
Underlying Cause of Death Data: ICD-10 Sub-Chapter Codes: I00-I09, I11, I13, I20-I51
Source: CDC WONDER

Age-Adjusted Heart Disease Mortality Rate by Gender Arkansas 2020



ICD-10 Codes: I00-I109, I11, I13, I120-I51
Source: CDC WONDER

Age-Adjusted Heart Disease Mortality Rate by Race/Ethnicity Arkansas 2020

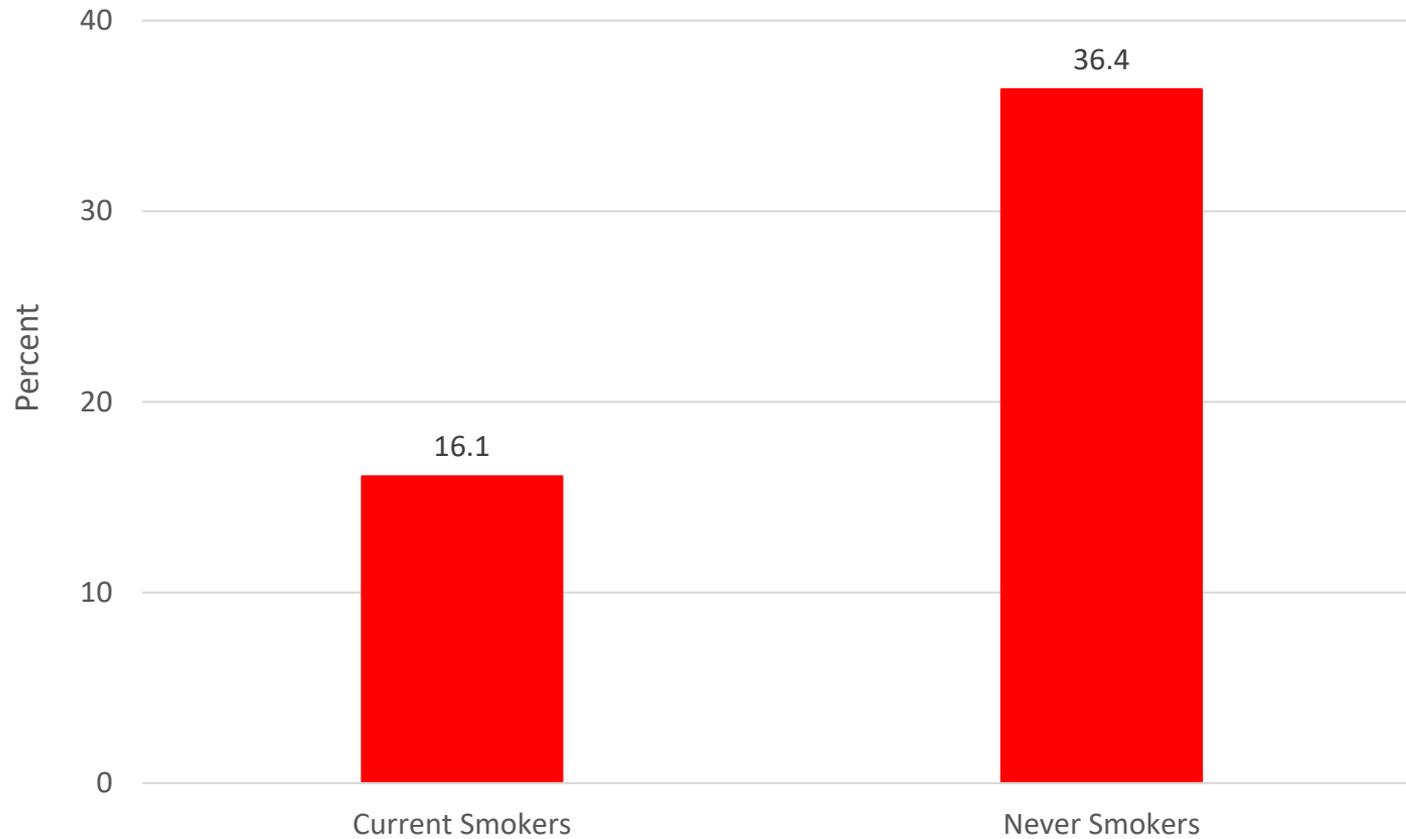


NH = non-Hispanic. ICD-10 Codes: I00-I109, I11, I13, I120-I51

Source: CDC WONDER

Coronary Heart Disease by Smoking Status

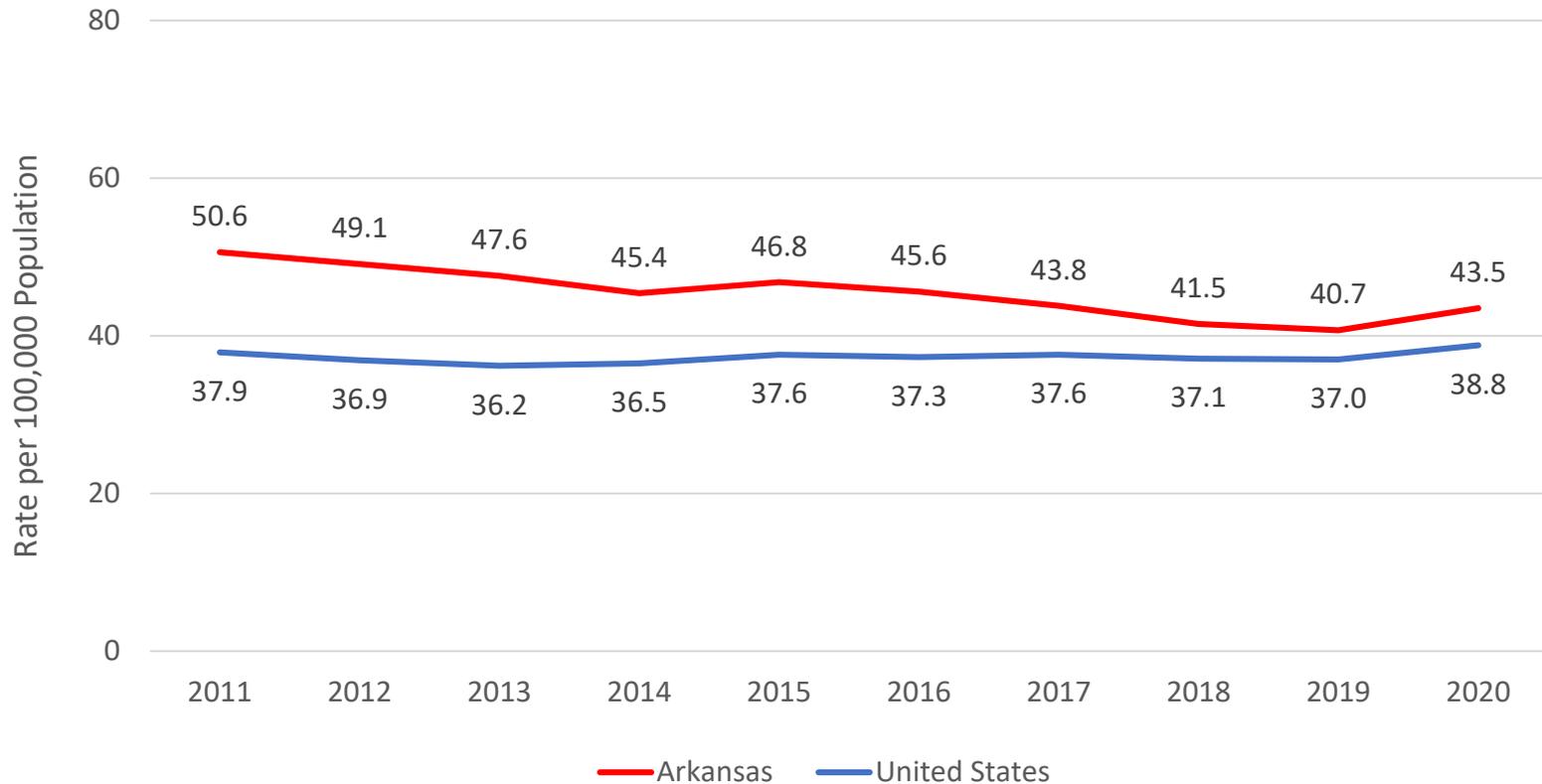
Arkansas 2020



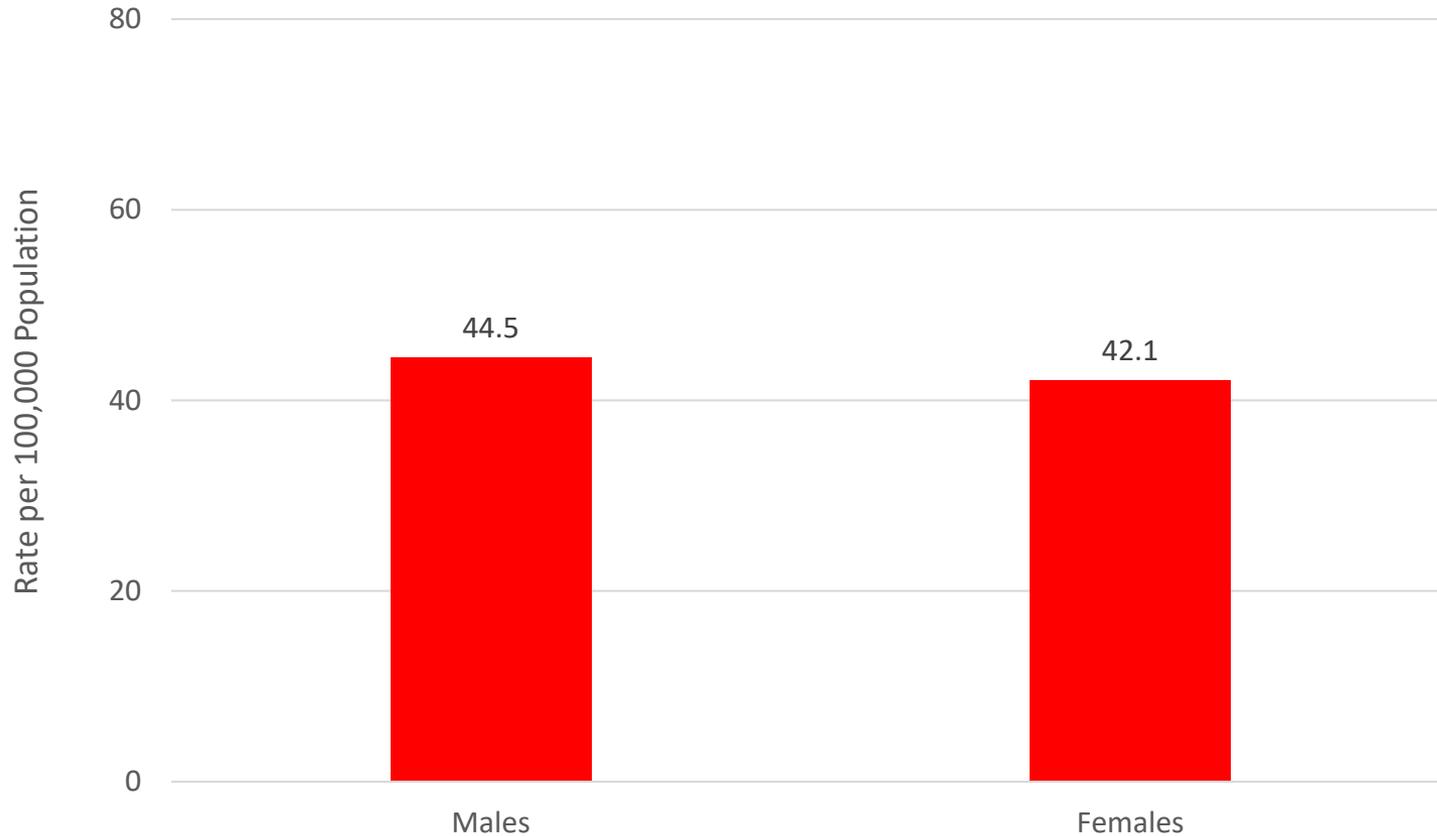
Questions: Ever told you had angina or coronary heart disease? Smoker status: Current = Every day or some days, Never = Never smoked.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

B. Cerebrovascular (Stroke) Mortality

Age-Adjusted Stroke Mortality Arkansas and U.S. 2011 - 2020



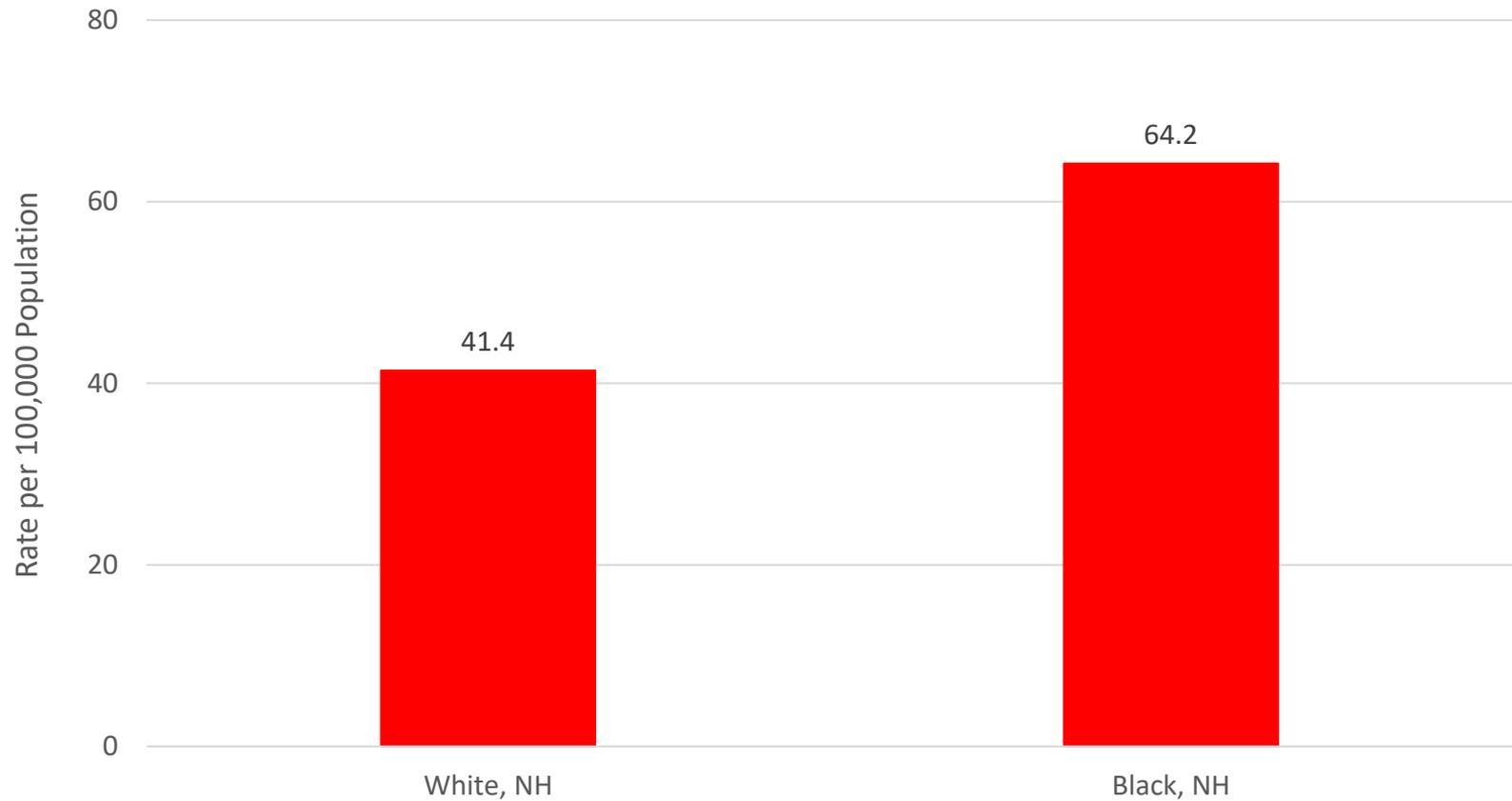
Age-Adjusted Stroke Mortality Rate by Gender Arkansas 2020



ICD-10 Codes: I160-I69
Source: CDC WONDER

Age-Adjusted Stroke Mortality Rate by Race

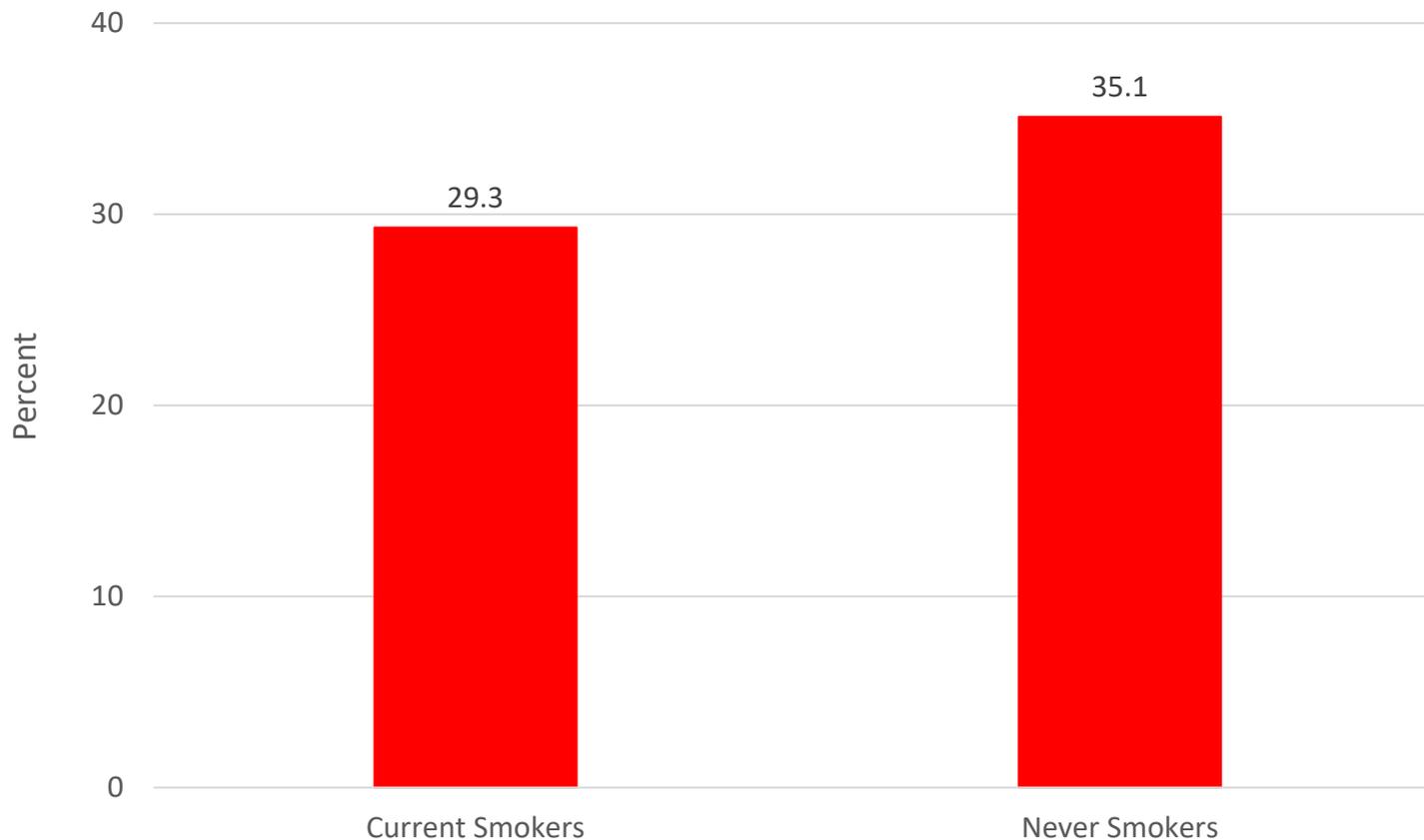
Arkansas 2020



NH = Non-Hispanic. Hispanic origin data was unreliable, and so not reported. ICD-10 Codes: I160-I69
Source: CDC WONDER

Stroke Prevalence by Smoking Status

Arkansas 2020



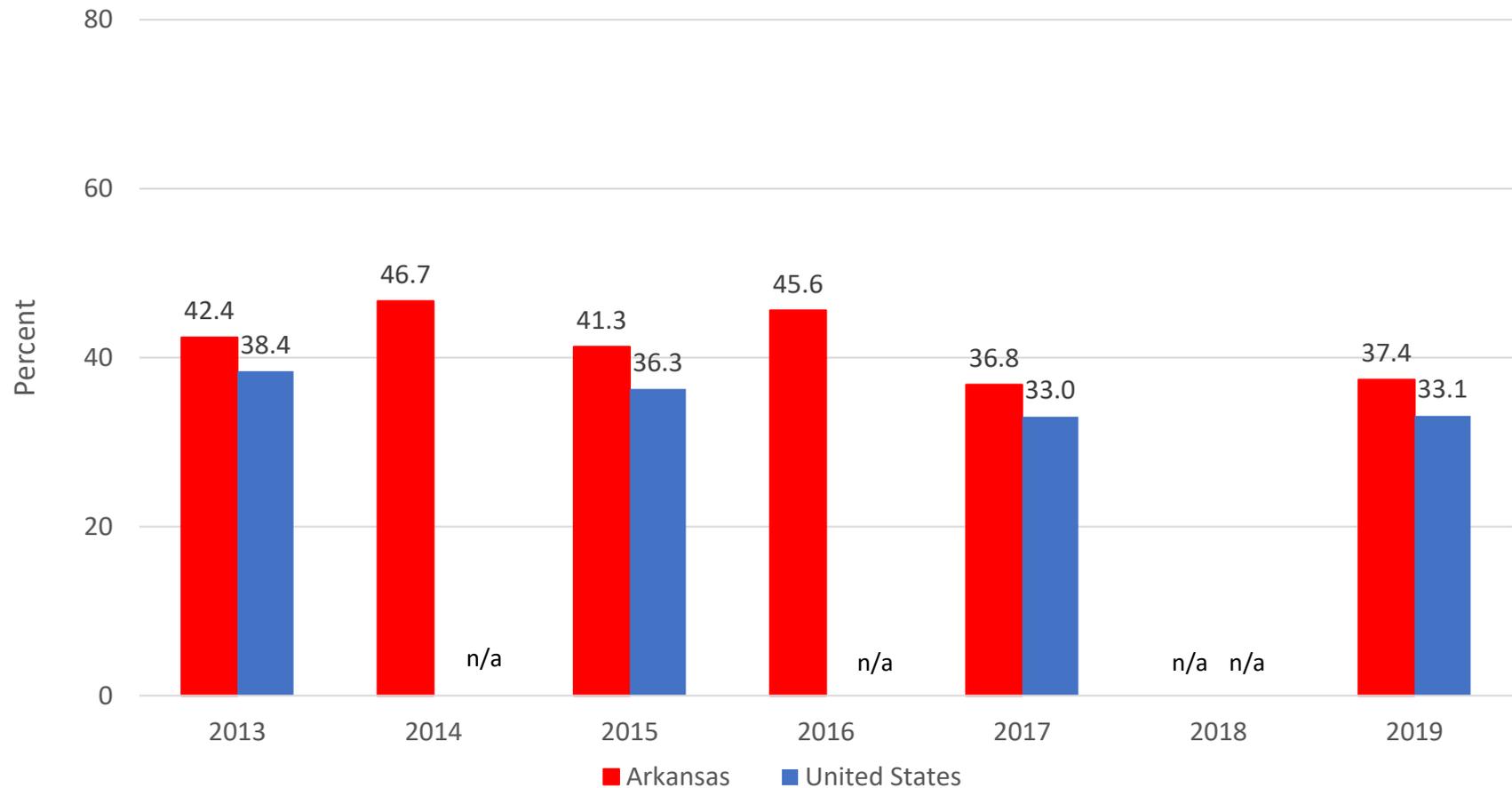
Questions: Ever told you had a stroke? Smoker status: Current = Every day or some days, Never = Never smoked.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

C. High Blood Cholesterol

Asked on BRFSS in Odd-Numbered Years*

*In 2014 and 2016, high blood cholesterol was asked as a state-added question.

High Blood Cholesterol Arkansas and U.S. 2013-2019



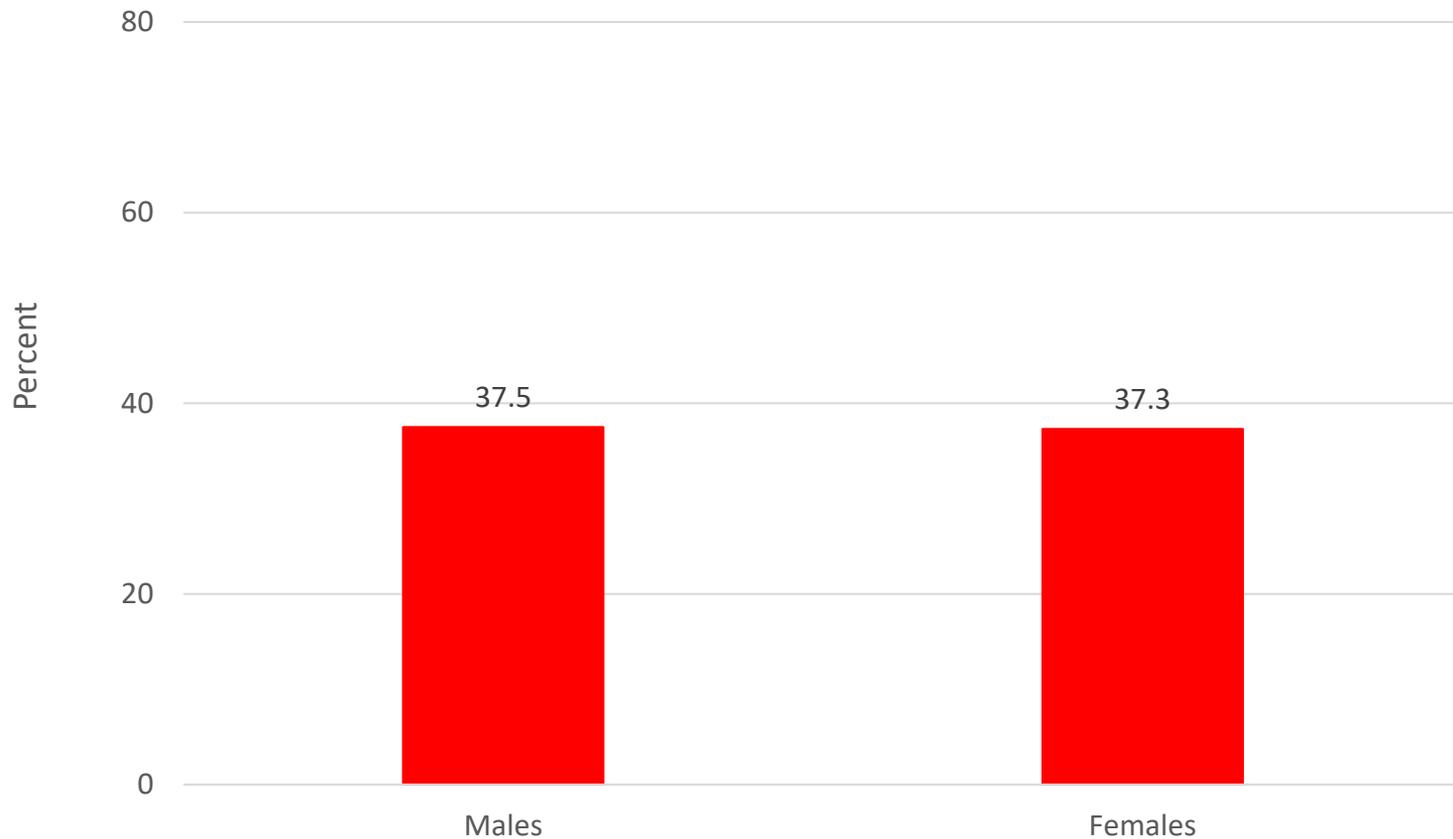
Question: Have you ever been told by a doctor or other health care professional that your blood cholesterol was high?

Survey question was asked in odd years but in 2014 and 2016 it was asked as a state-added question.

Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Cholesterol by Gender

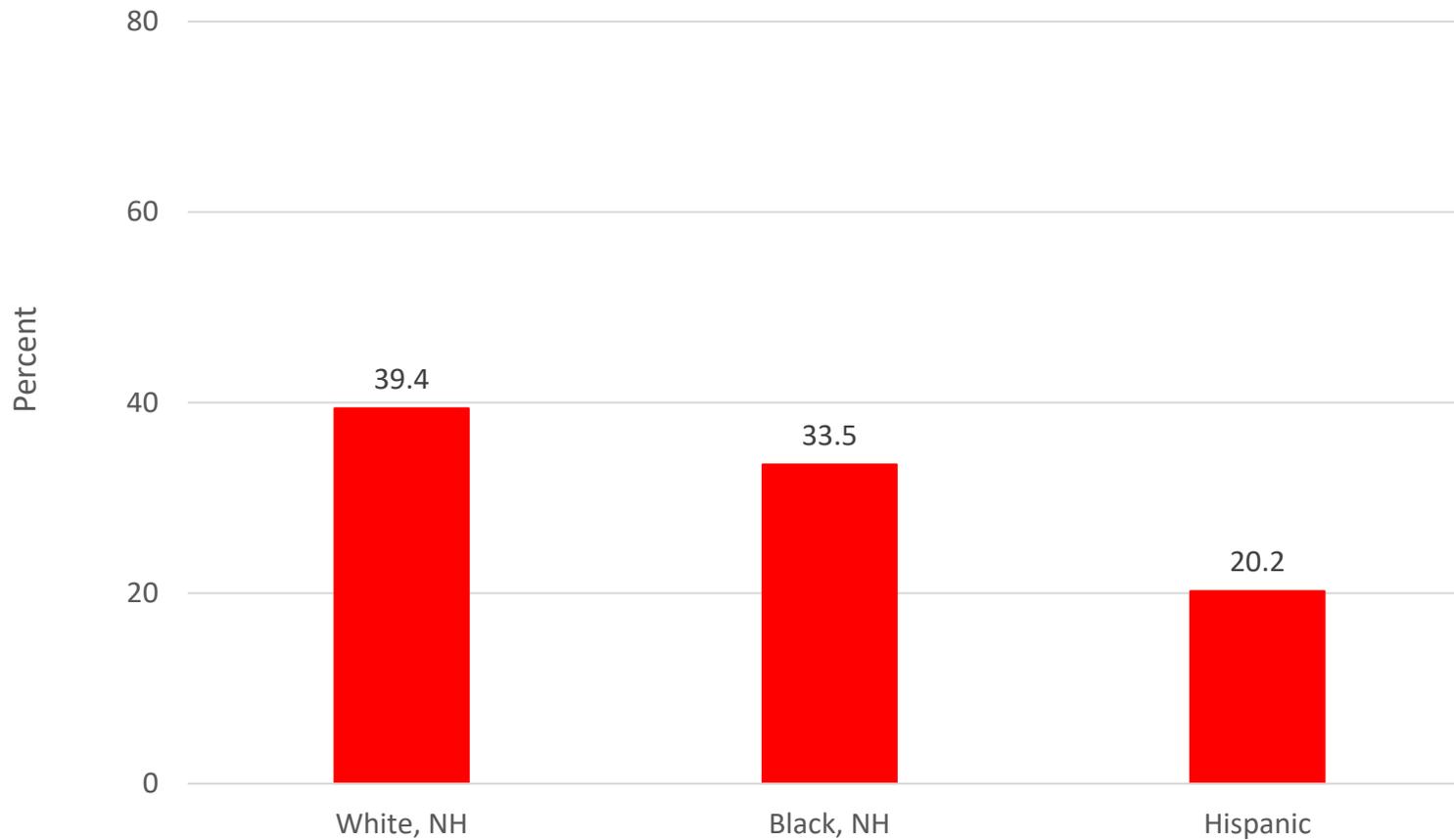
Arkansas 2019



Question: Have you ever been told by a doctor or other health care professional that your blood cholesterol was high?
Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Cholesterol by Race

Arkansas 2019



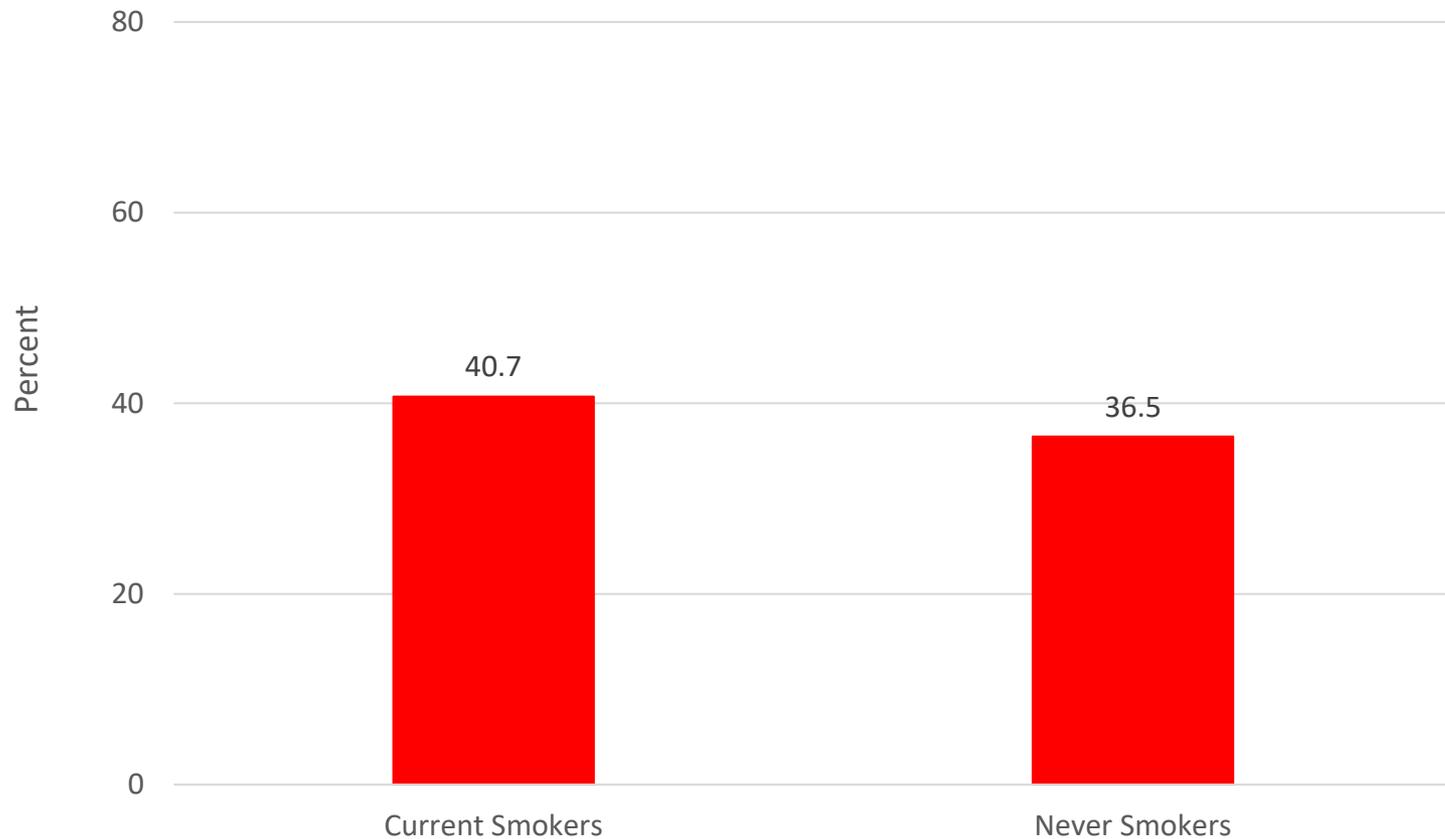
Question: Have you ever been told by a doctor or other health care professional that your blood cholesterol is high?

NH = Non-Hispanic

Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Cholesterol by Smoking Status

Arkansas 2019



Question: Have you ever been told by a doctor or other health care professional that your blood cholesterol was high? Smoking Status - Current = every day or some days, Never = Never smoked.

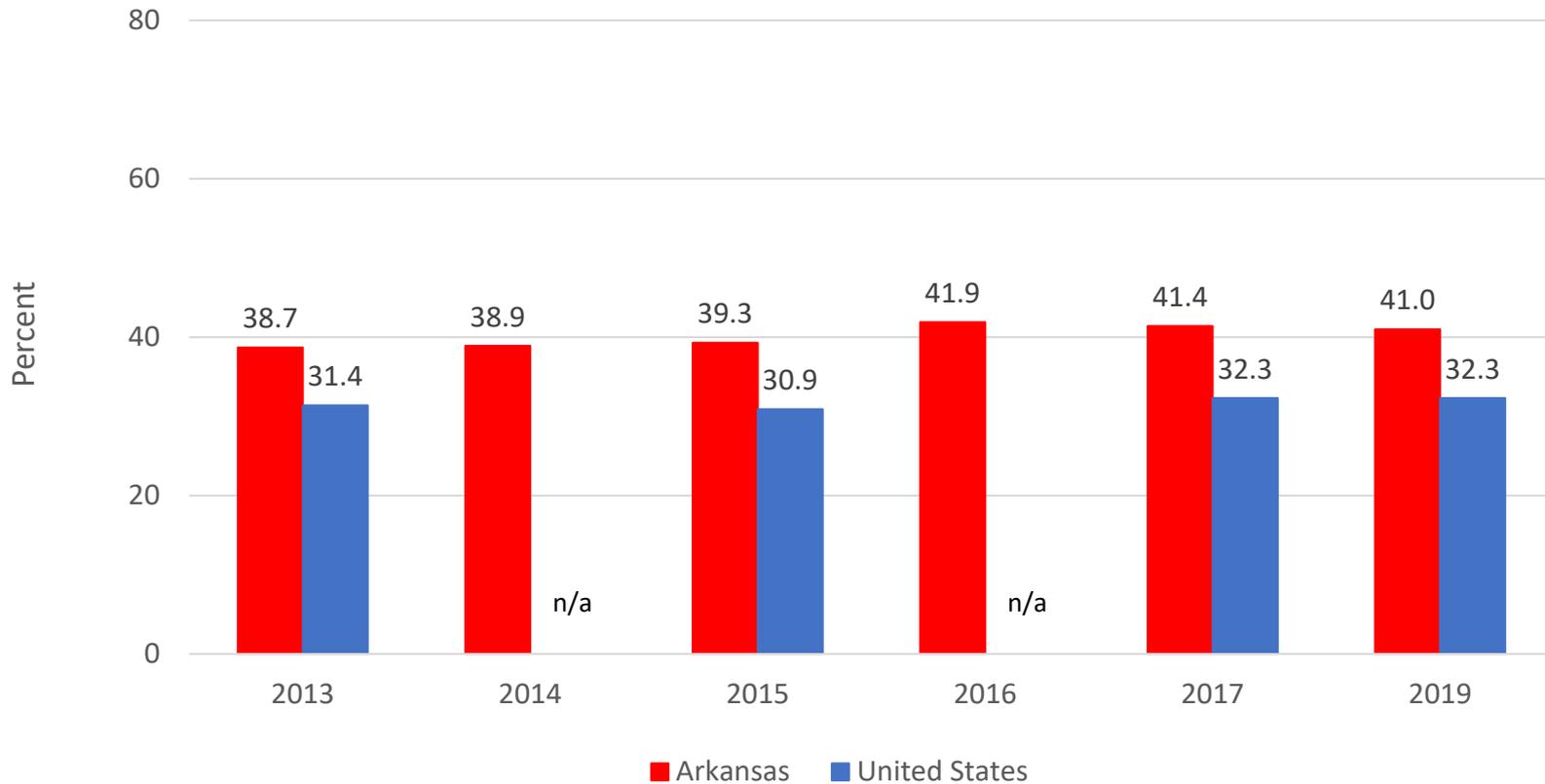
Source: Behavioral Risk Factor Surveillance System (BRFSS)

D. Hypertension (High Blood Pressure)

Asked on BRFSS in Odd-Numbered Years*

*In 2014 and 2016, high blood pressure was asked as a state-added question.
It did not distinguish between those who had ever been told and those who had only been told during pregnancy.

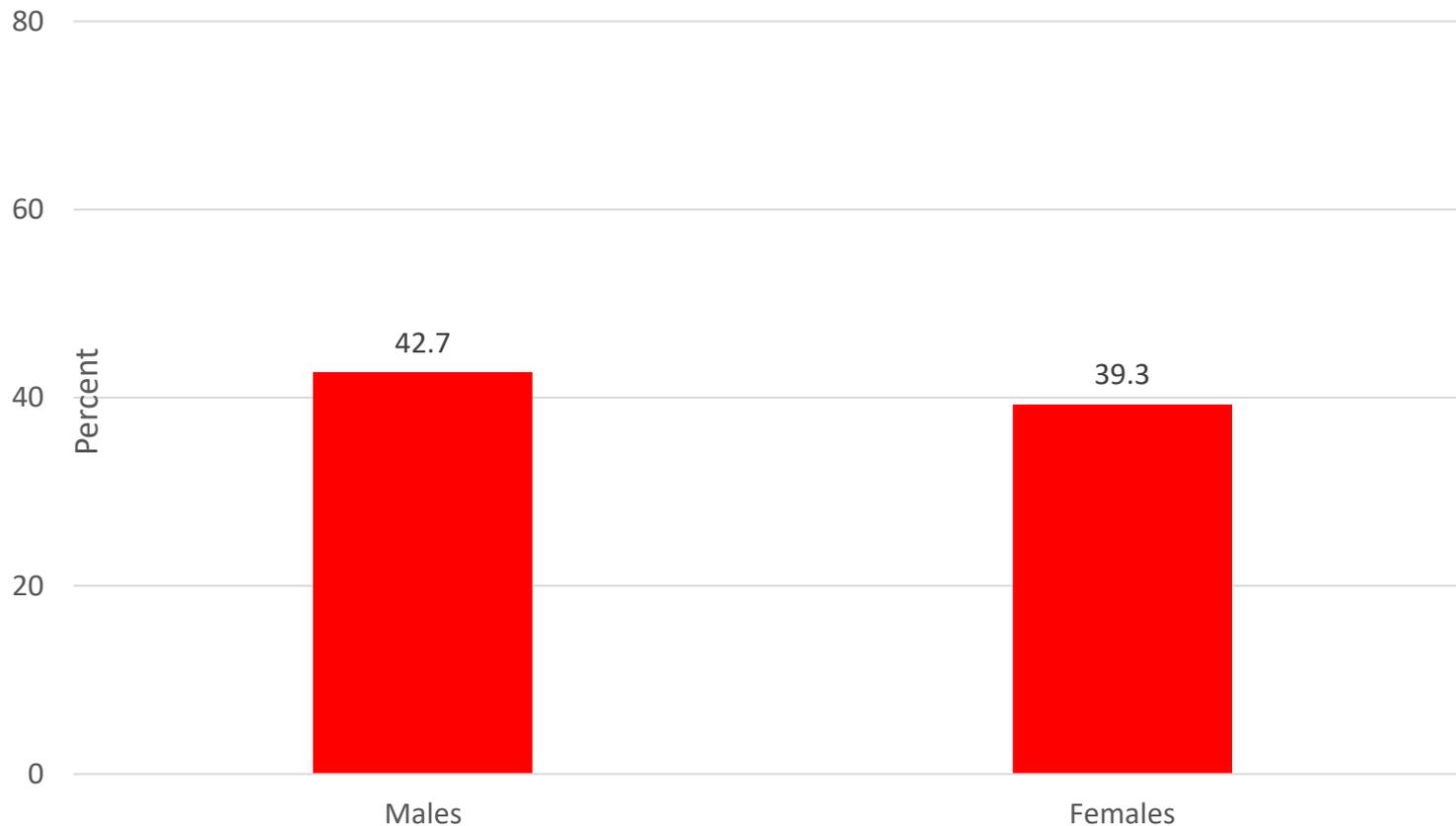
High Blood Pressure Arkansas and U.S. 2013-2019



Question: Have you ever been told by a doctor or other health care professional that you have high blood pressure?
Asked in odd years but in 2014 and 2016 was asked as a state-added question.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Pressure by Gender

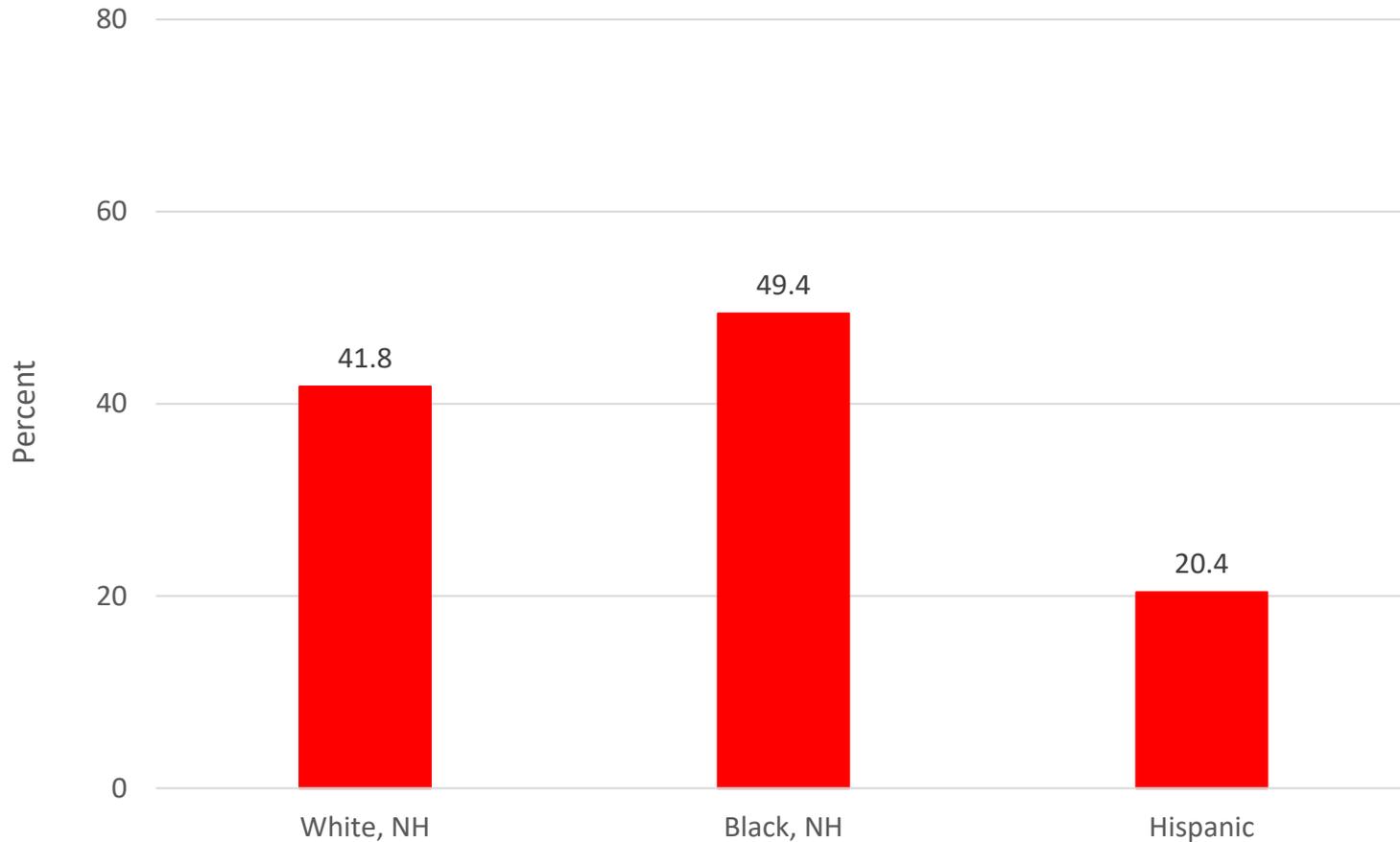
Arkansas 2019



Question: Have you ever been told by a doctor or other health care professional that you have high blood pressure?

Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Pressure by Race/Ethnicity Arkansas 2019



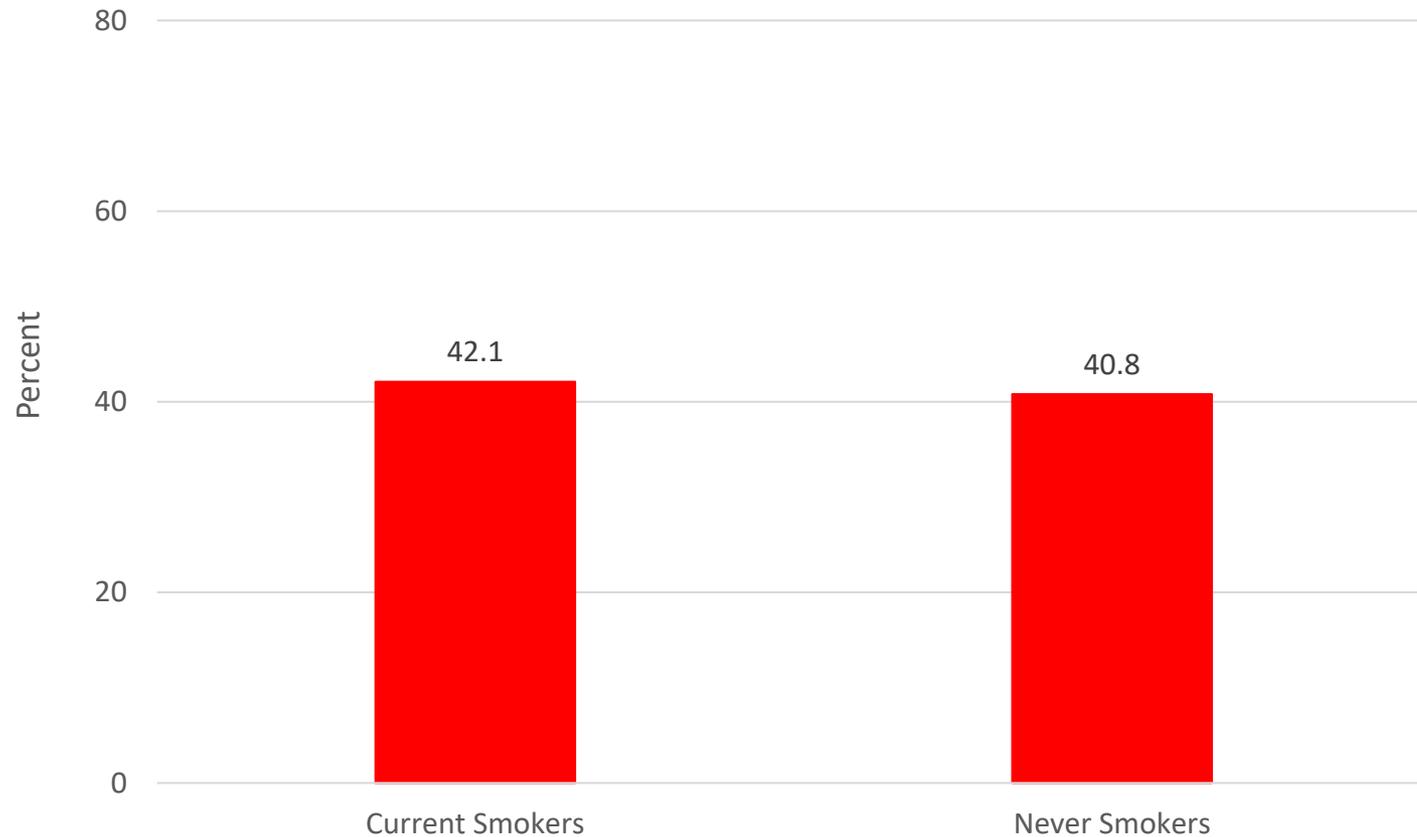
Question: Have you ever been told by a doctor or other health care professional that you have high blood pressure?

NH = Non-Hispanic

Source: Behavioral Risk Factor Surveillance System (BRFSS)

High Blood Pressure by Smoking Status

Arkansas 2019



Question: Have you ever been told by a doctor or other health care professional that you have high blood pressure? Smoking Status – Current = Every day or some days, Never = Never smoked.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

SECTION III

Impact of Tobacco Use: Cancer

Cancer data include invasive cases only unless otherwise noted.

Tobacco-Associated Cancers

- Cancer registries do not routinely collect data on tobacco use, so the number of cancers associated with these risk factors cannot be determined definitively.
- However, other sources of information can be used to obtain the proportion of cancers probably caused by the risk factor, also known as the *attributable fraction*. Then the number of *attributable* cancers can be estimated by multiplying the attributable fraction by the number of associated cancers.

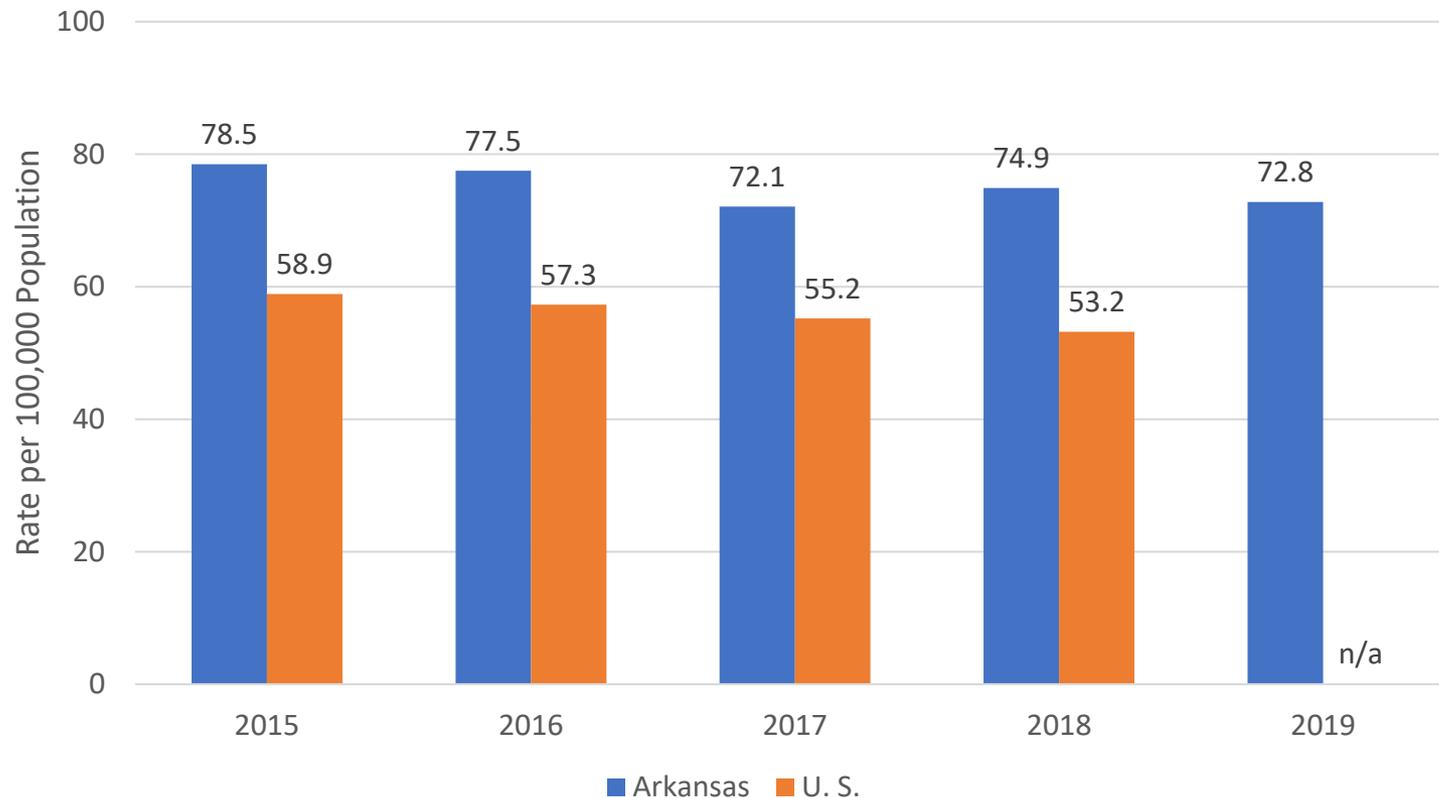
Tobacco-Associated Cancers

- **Lip, oral cavity, pharynx**
- **Esophagus**
- **Stomach**
- **Colon and rectum**
- **Liver**
- **Trachea, lung, bronchus**
- **Cervix uteri**
- **Kidney and renal pelvis**
- **Urinary bladder**
- **Acute myeloid leukemia**

A. Cancer Incidence

The following cancer stats are provided for cancers linked to tobacco use as reported in the Surgeon General's report of 2014, page 4.

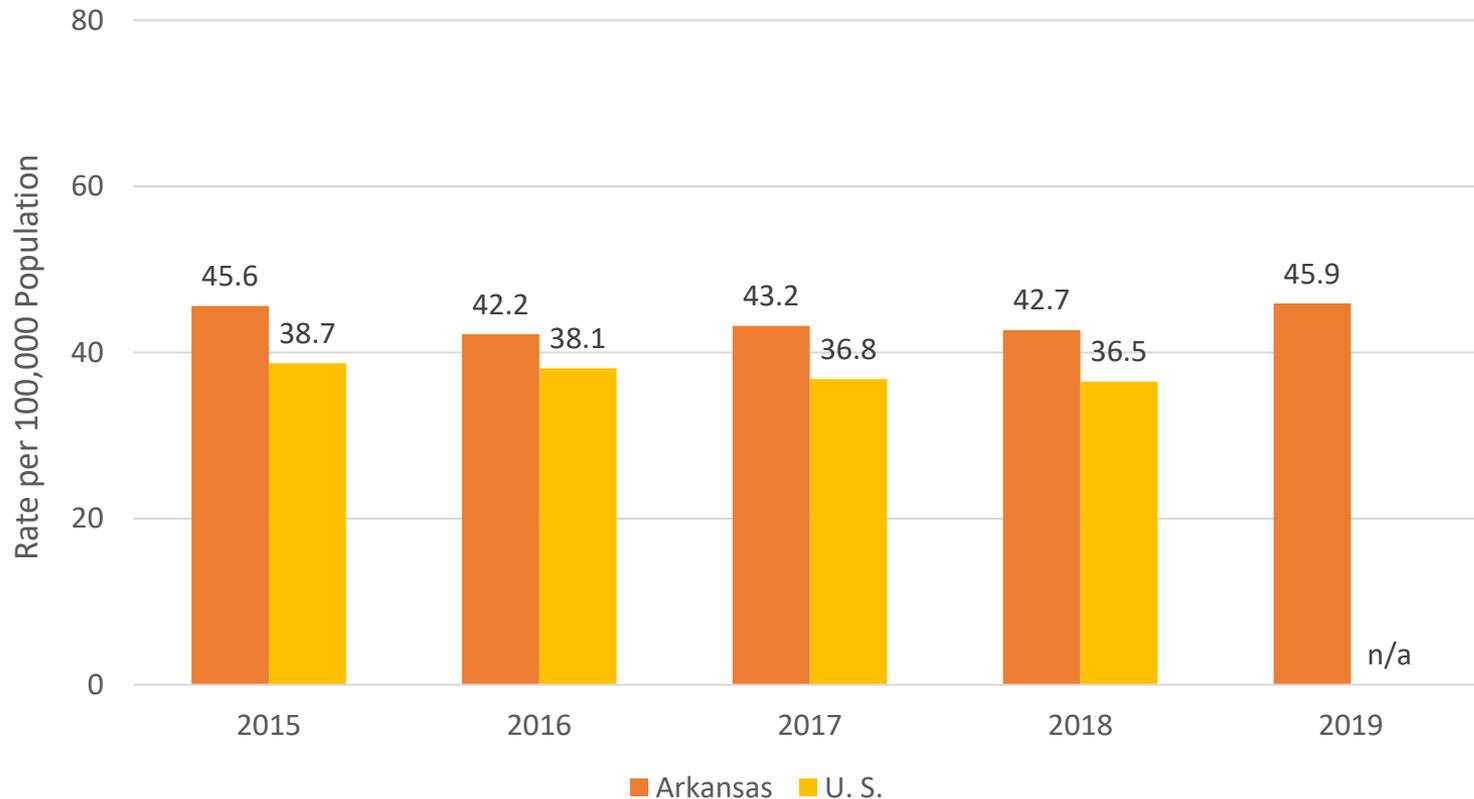
Age-Adjusted Rate of Tobacco-Associated Cancer Incidence Rates by Site: Lung and Bronchus Arkansas and U.S. 2015 - 2019



Note: All rates per 100,000. Age-adjusted to the 2000 U. S. Standard Million Population. National data from CDC WONDER for 2019 not available as of June 7, 2022.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

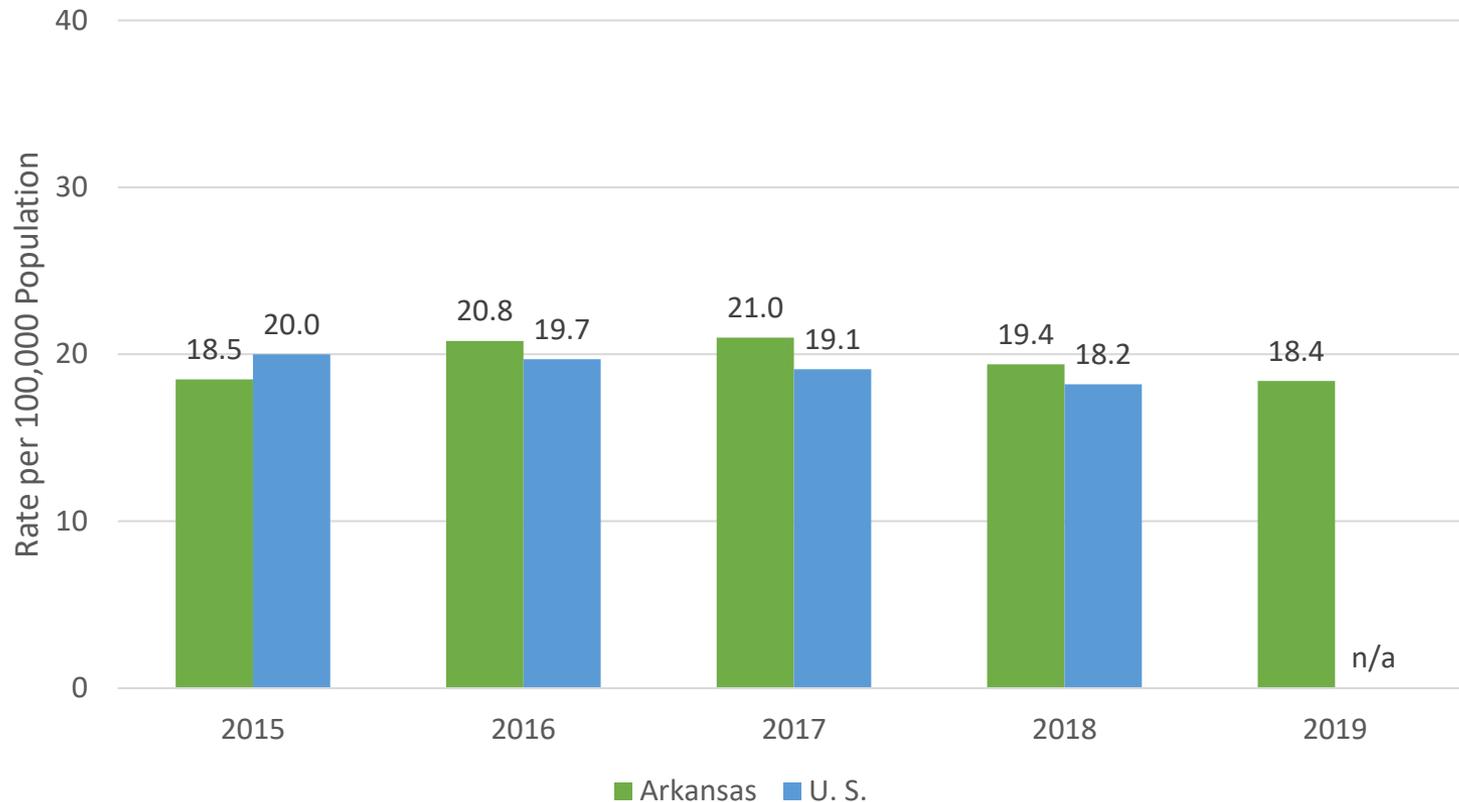
Age-Adjusted Rate of Tobacco-Associated Cancer Incidence Rates by Site: Colon and Rectum Arkansas and U.S. 2015-2019



Note: All rates per 100,000. Age-adjusted to the 2000 U. S. Standard Million Population. National data from CDC WONDER for 2019 not available as of June 7, 2022.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

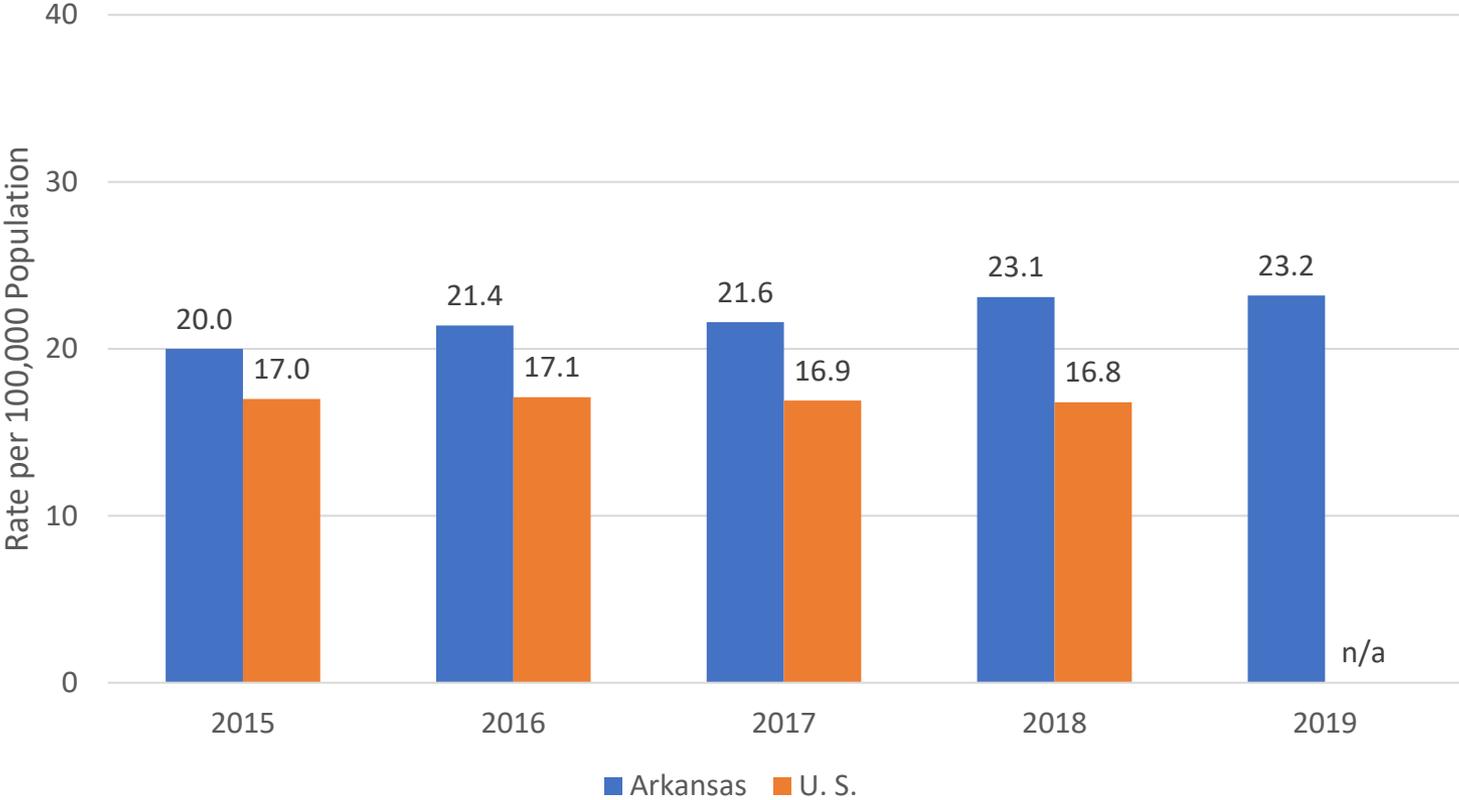
Age-Adjusted Rate of Tobacco-Associated Cancer Incidence Rates by Site: Urinary Bladder Arkansas and U.S. 2015-2019



Note: All rates per 100,000. Age-adjusted to the 2000 U. S. Standard Million Population. National data from CDC WONDER for 2019 not available as of June 7, 2022.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

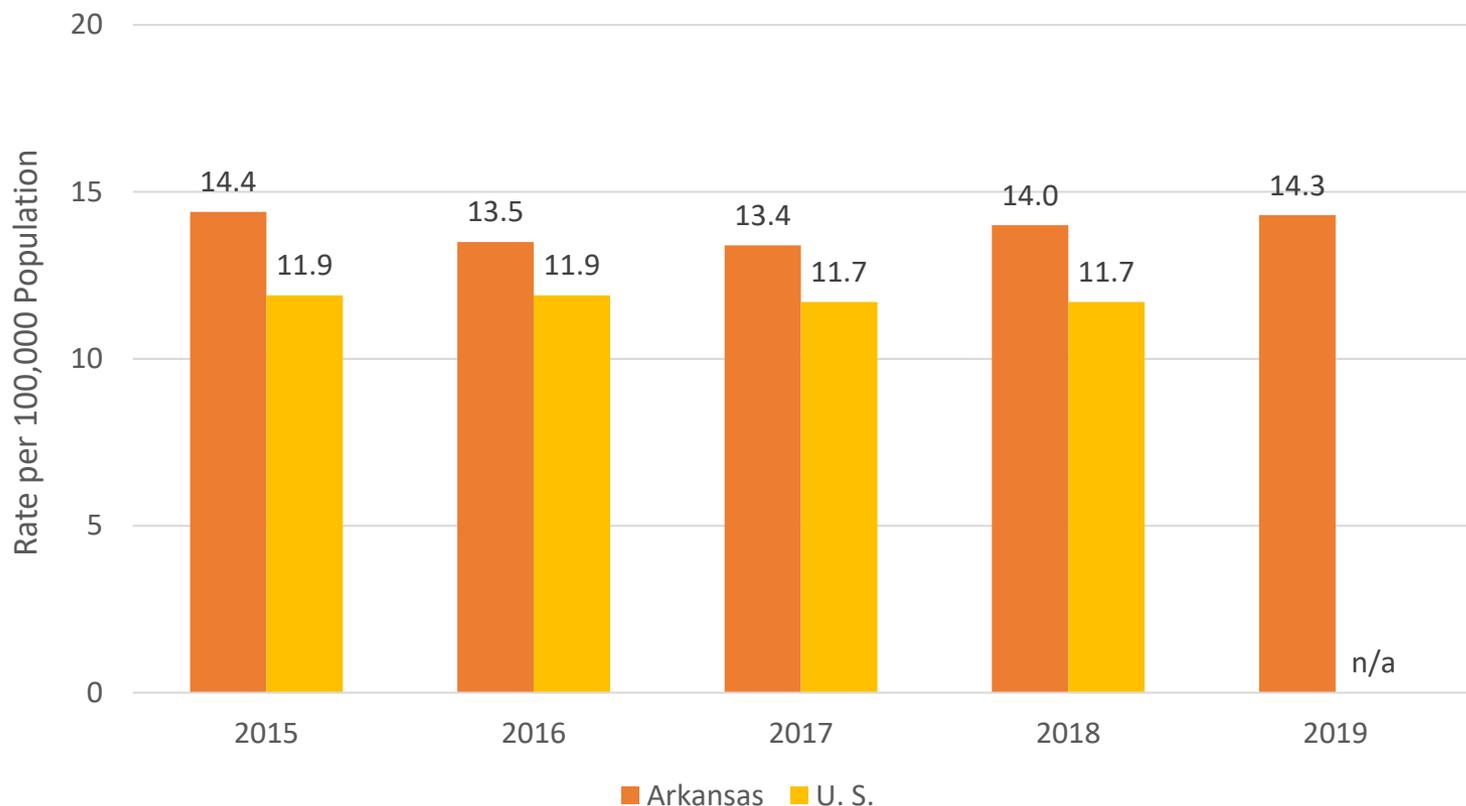
Age-Adjusted Rate of Tobacco-Associated Cancer Incidence Rates by Site: Kidney and Renal Pelvis Arkansas and U.S. 2015-2019



Note: All rates per 100,000. Age-adjusted to the 2000 U. S. Standard Million Population. National data from CDC WONDER for 2019 not available as of June 7, 2022.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

Age-Adjusted Rate of Tobacco-Associated Cancer Incidence Rates by Site: Oral Cavity and Pharynx Arkansas and U.S. 2015-2019



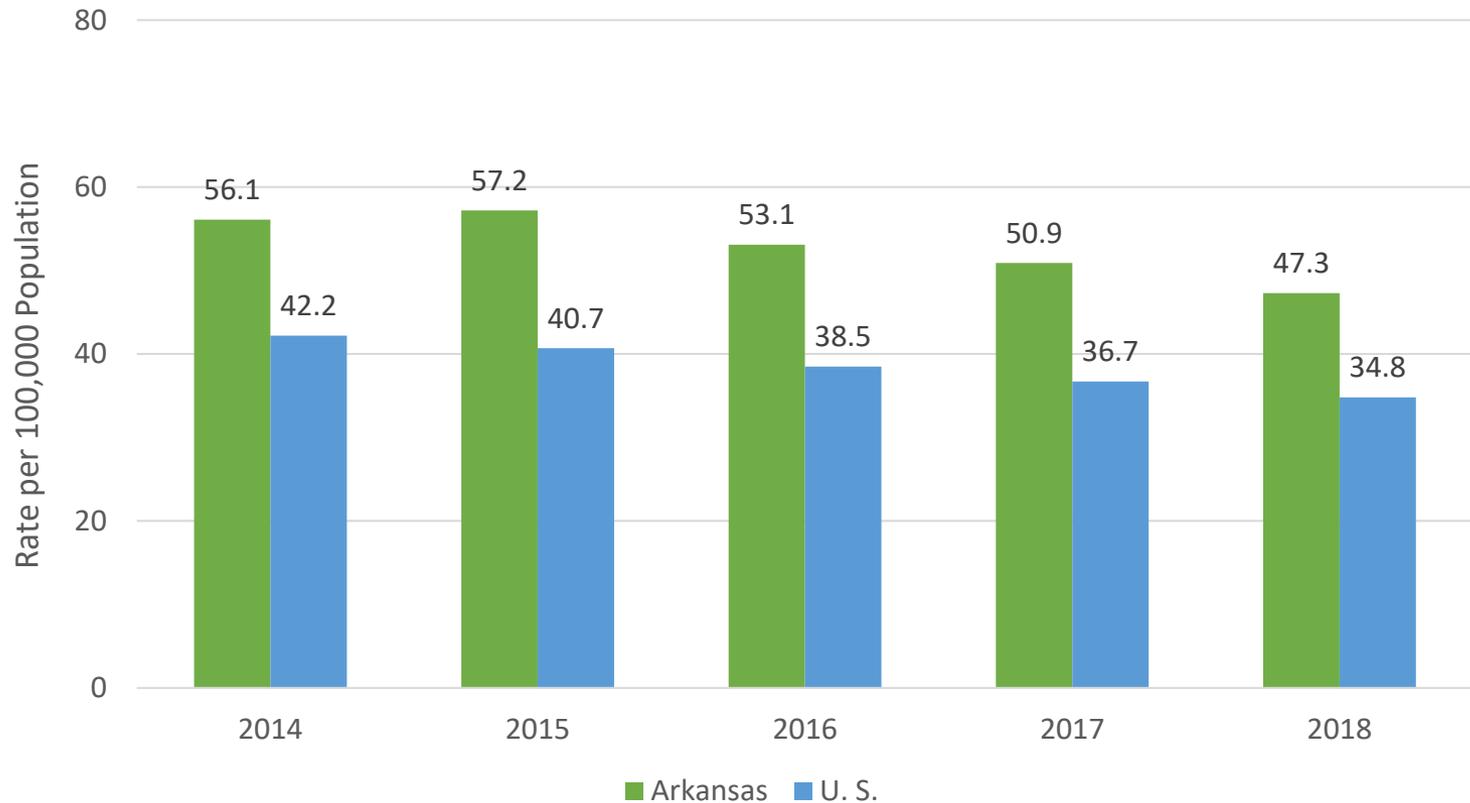
Note: All rates per 100,000. Age-adjusted to the 2000 U. S. Standard Million Population. National data from CDC WONDER for 2019 not available as of June 7, 2022.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

B. Cancer Mortality

The following cancer stats are provided for cancers linked to tobacco use as reported in the Surgeon General's report of 2014, page 4.

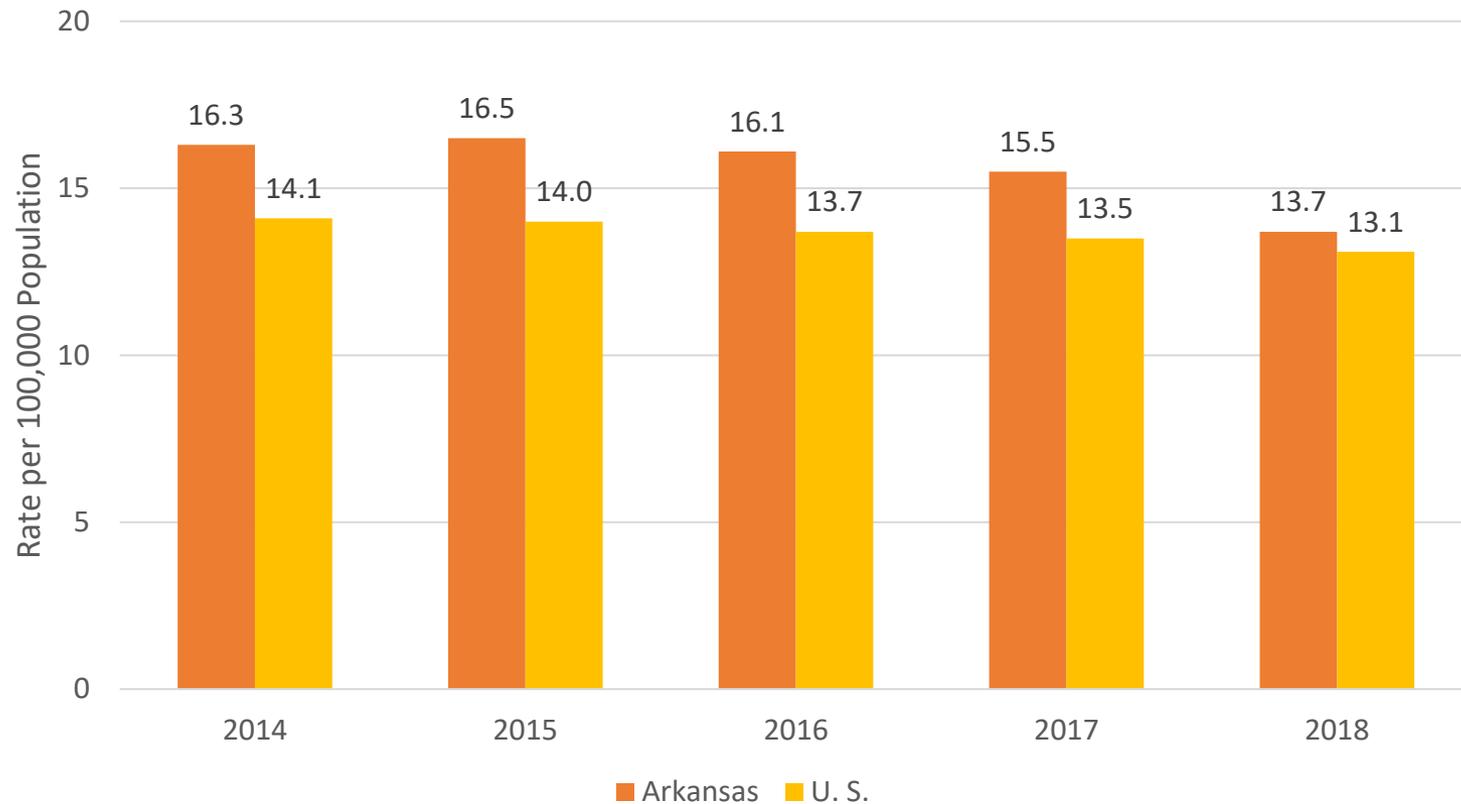
Age-Adjusted Rate of Tobacco-Associated Cancer Mortality Rates by Site: Lung and Bronchus Arkansas and U.S. 2014-2018



Notes: Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

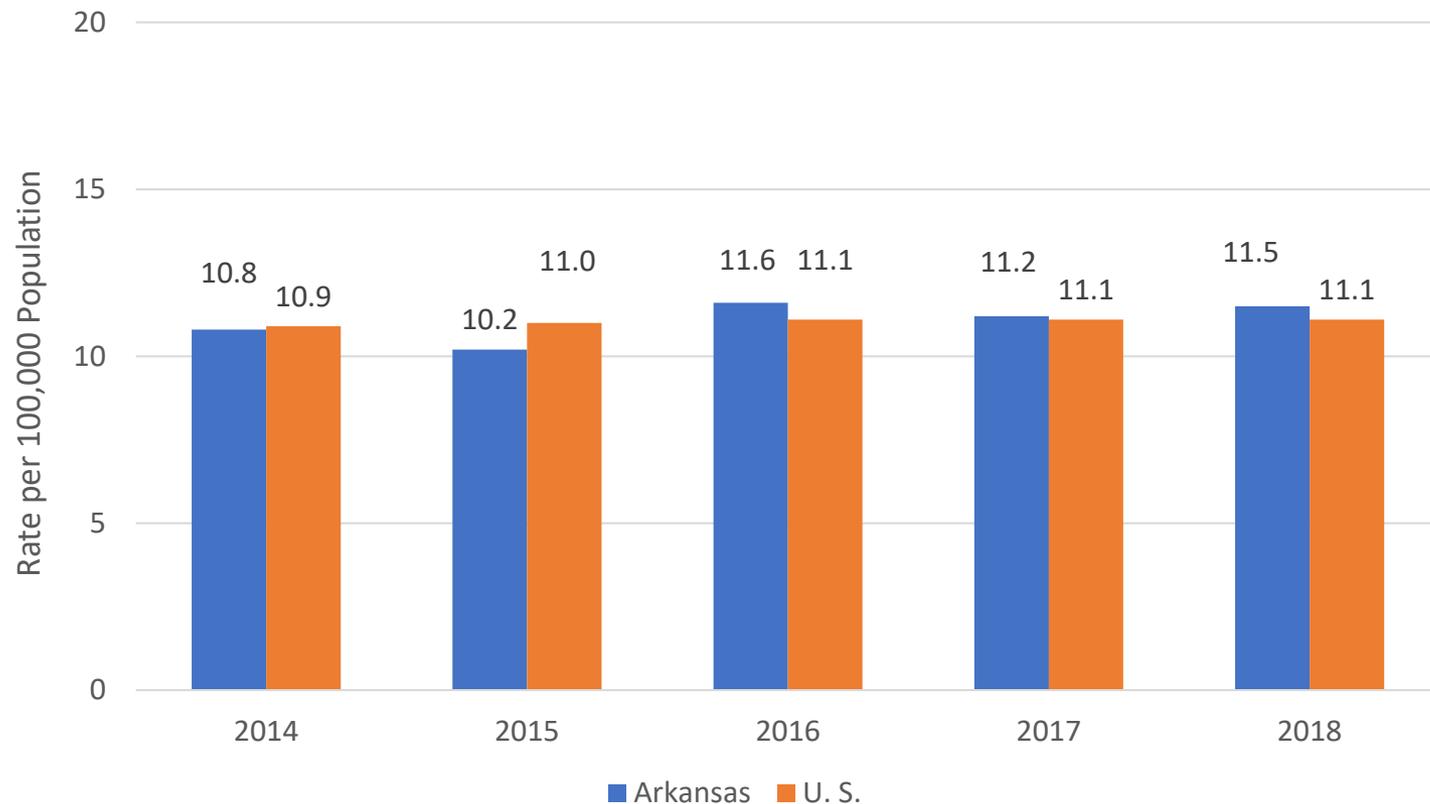
Age-Adjusted Rate of Tobacco-Associated Cancer Mortality Rates by Site: Colon and Rectum Arkansas and U.S. 2014-2018



Notes: Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

Age-Adjusted Rate of Tobacco-Associated Cancer Mortality Rates by Site: Pancreas Arkansas and U.S. 2014-2018



Notes: Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

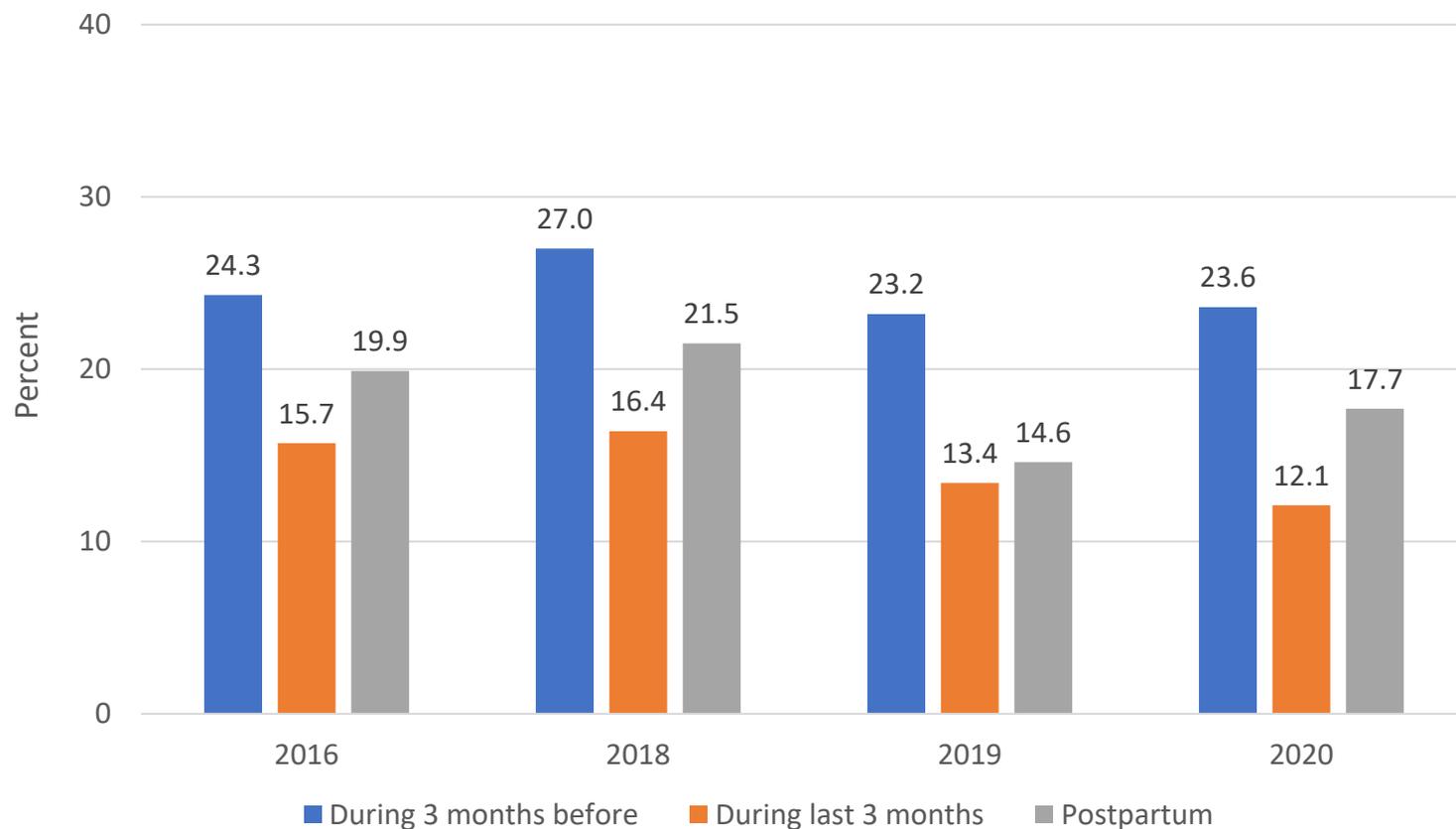
Source: Arkansas data retrieved from the Arkansas Cancer Registry Query System and national data retrieved from CDC WONDER.

SECTION IV
Impact of Tobacco Use:
Maternal and Child Health

A. Mothers* Who Used Tobacco Products During Pregnancy

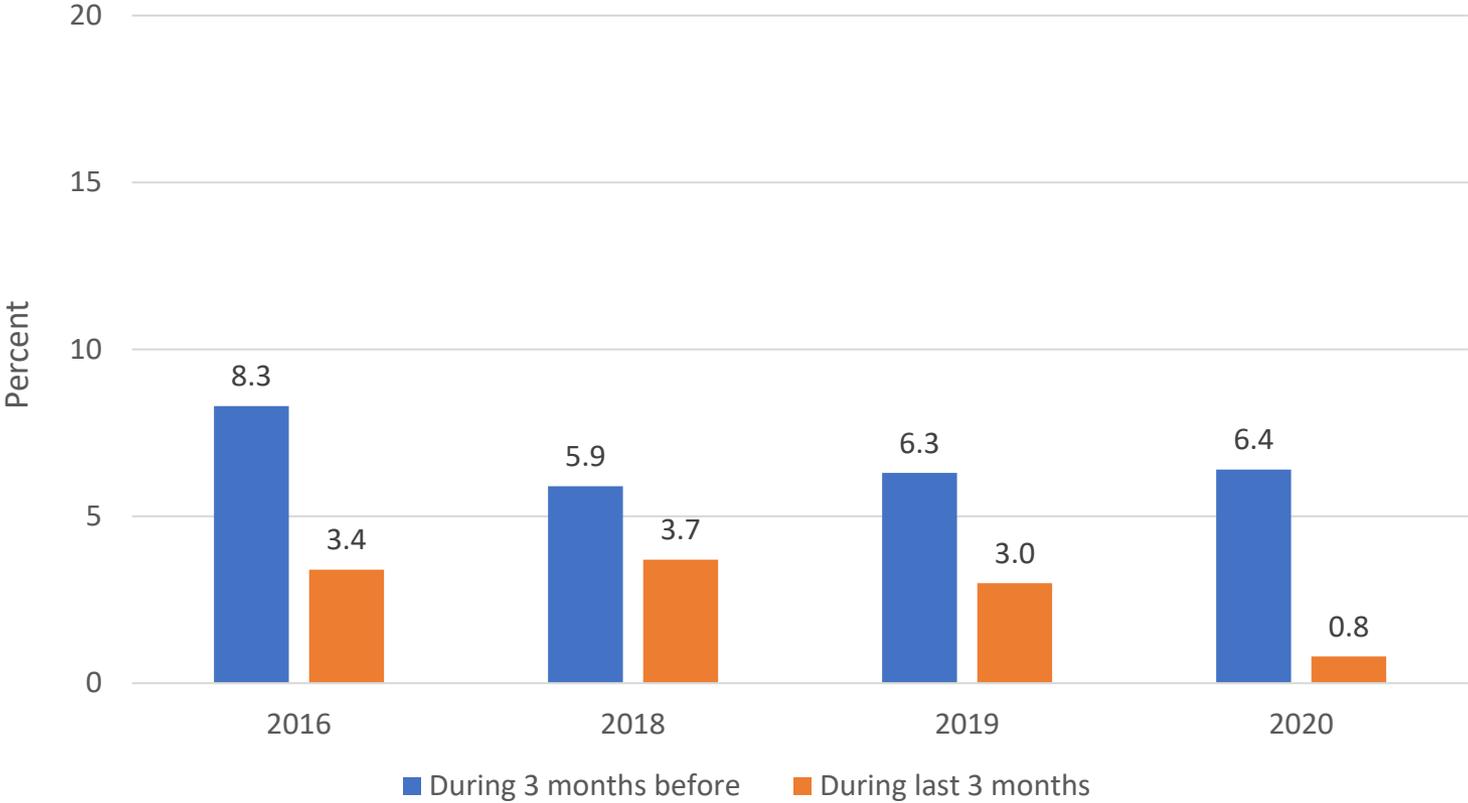
*All ages unless otherwise specified

Percent of All Mothers Who Smoked Cigarettes During Pregnancy Arkansas 2016-2020



Note: During the 3 months before pregnancy, during the last 3 months of pregnancy, and postpartum.
Source: Health Statistics Branch, Arkansas Department of Health

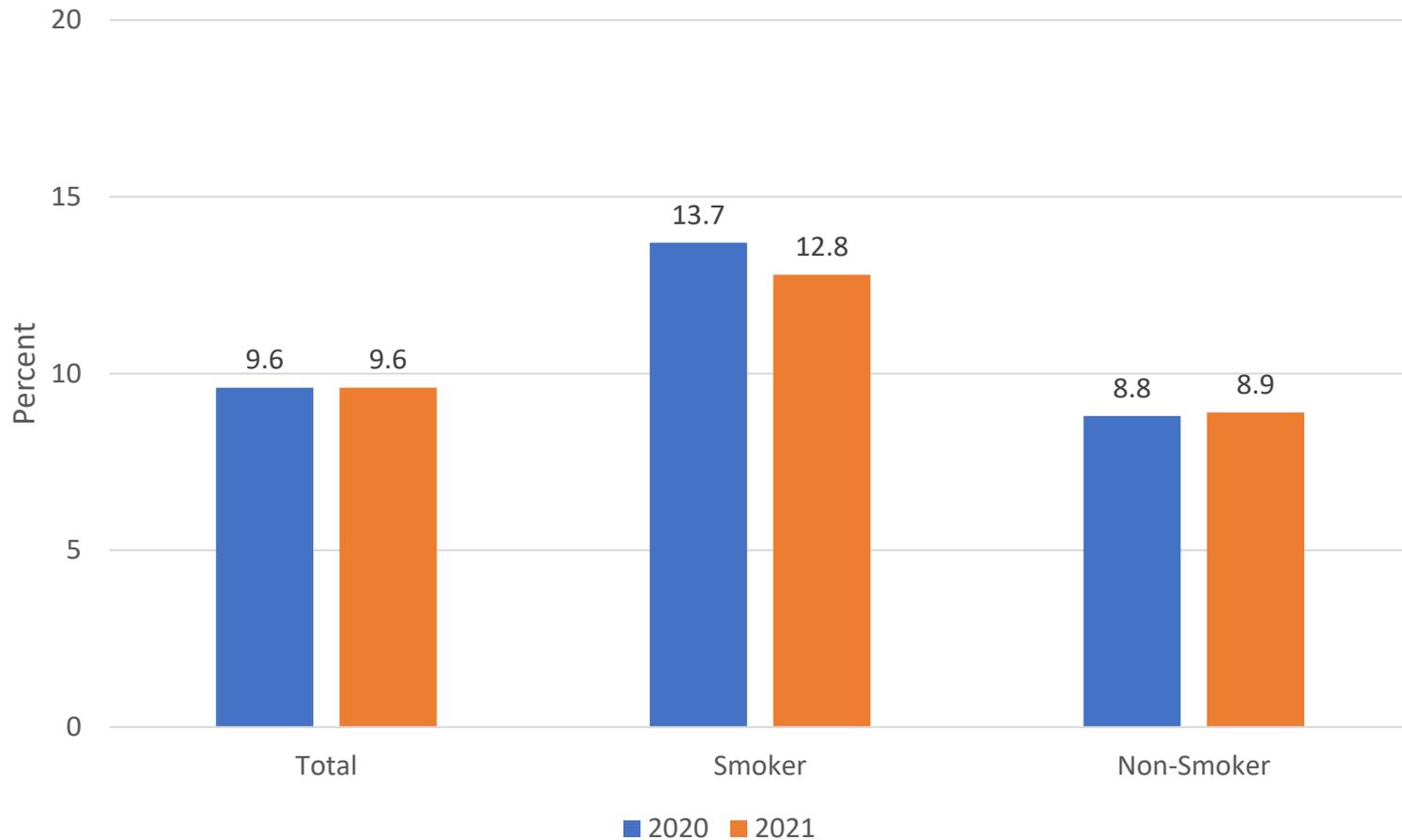
Percent of All Mothers Who Used E-Cigarettes During Pregnancy Arkansas 2016-2020



Note: During the 3 months before pregnancy or during the last 3 months of pregnancy.
Source: Health Statistics Branch, Arkansas Department of Health

B. Low Birth Weight and Preterm Births by Maternal Tobacco Use

Percent of Low Birthweight Births* by Maternal Smoking Status During Pregnancy Arkansas 2020-2021



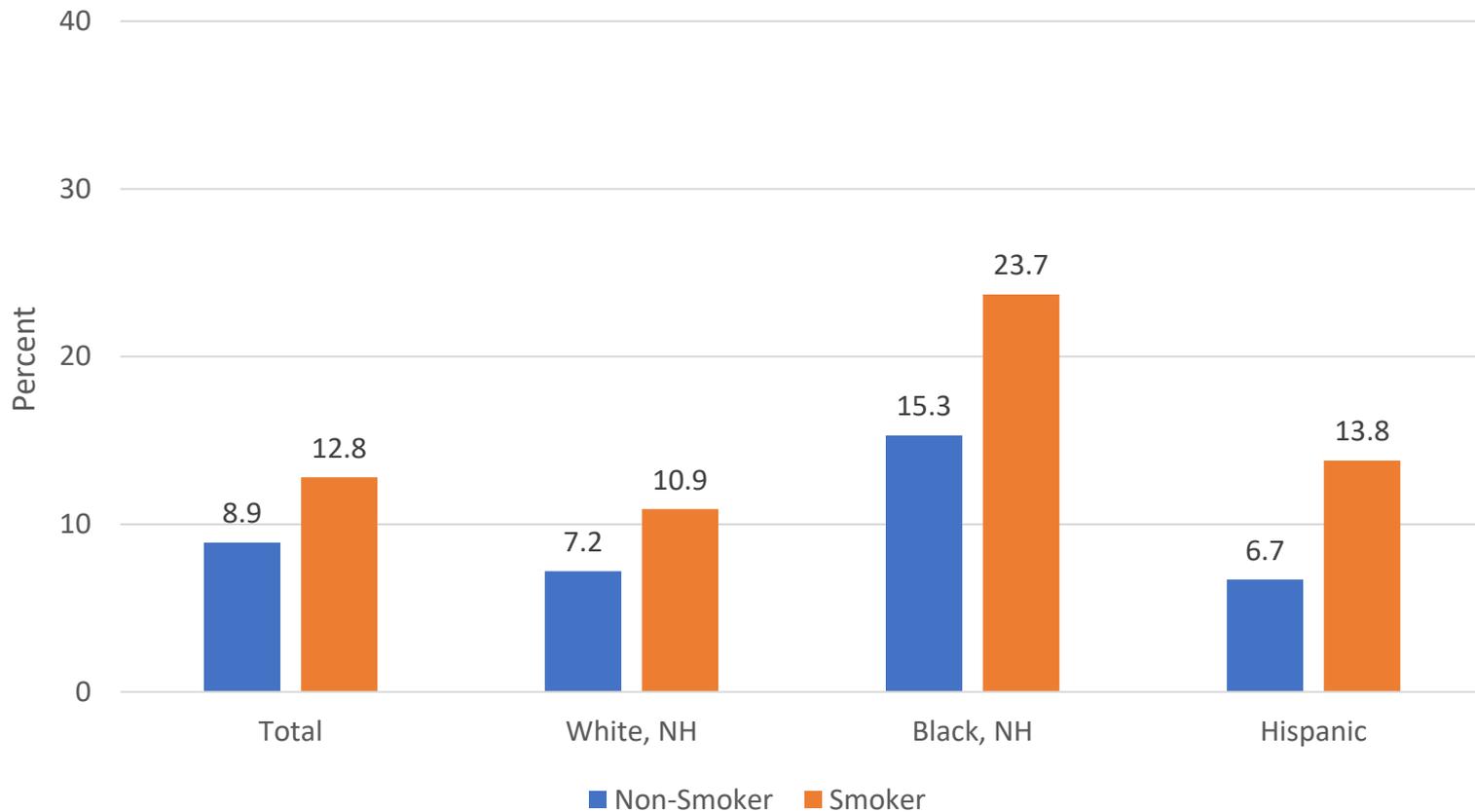
Note: Data are provisional; Low Birthweight is defined as less than 2,500 grams (≈5.5 pounds).

* Percent of low birthweight births of all live births and all low birthweight births from mothers who did or did not smoke during pregnancy.

Source: Health Statistics Branch, Arkansas Department of Health

Percent of Low Birthweight Births* by Race/Ethnicity and Maternal Smoking Status During Pregnancy

Arkansas 2021

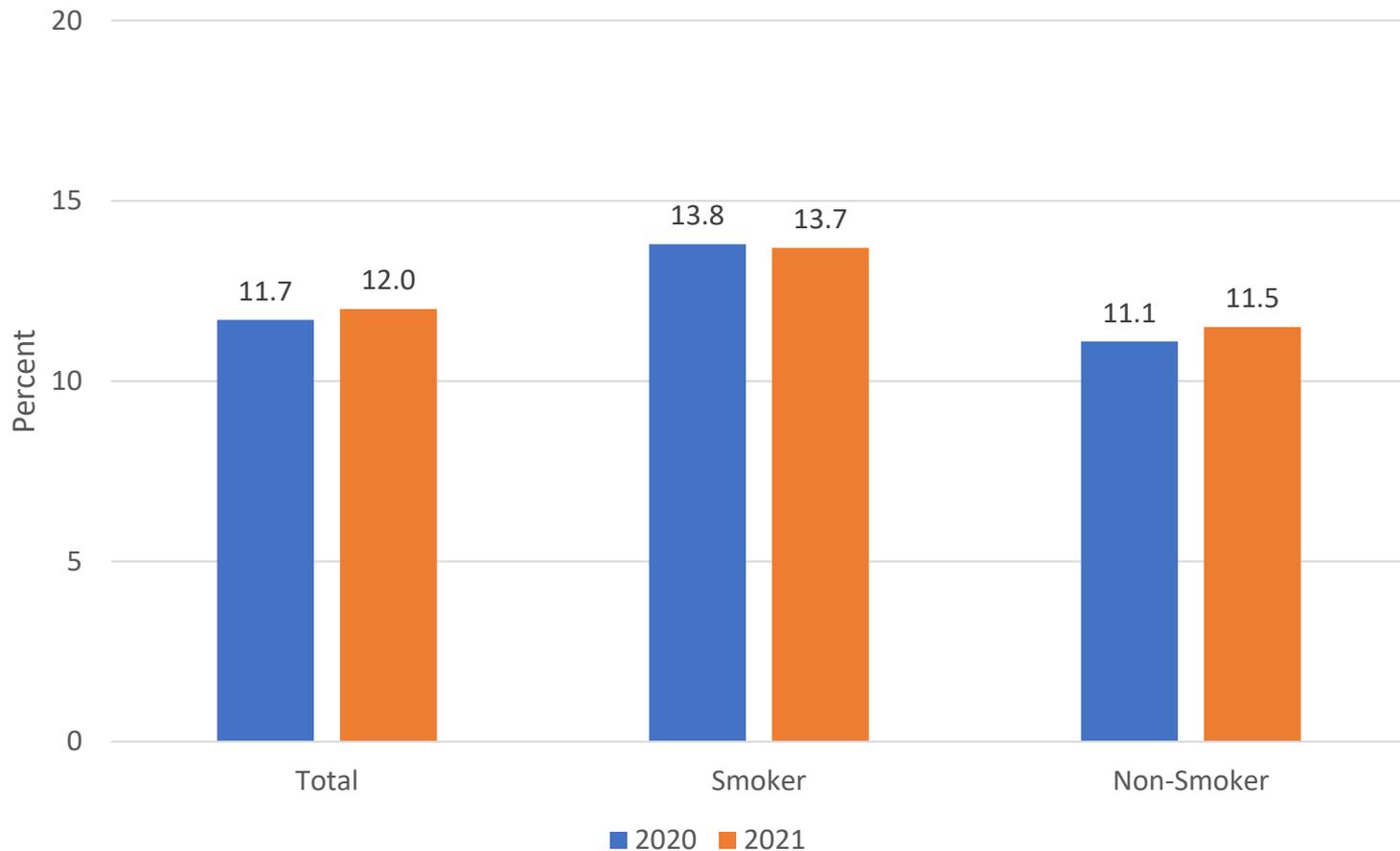


Note: Data are provisional; Low Birthweight is defined as less than 2,500 grams (~5.5 pounds).

* Percent of low birthweight births of all live births and all low birthweight births from mothers who smoked during pregnancy.

Source: Health Statistics Branch, Arkansas Department of Health

Percent of Preterm Births* by Maternal Smoking Status During Pregnancy Arkansas 2020-2021

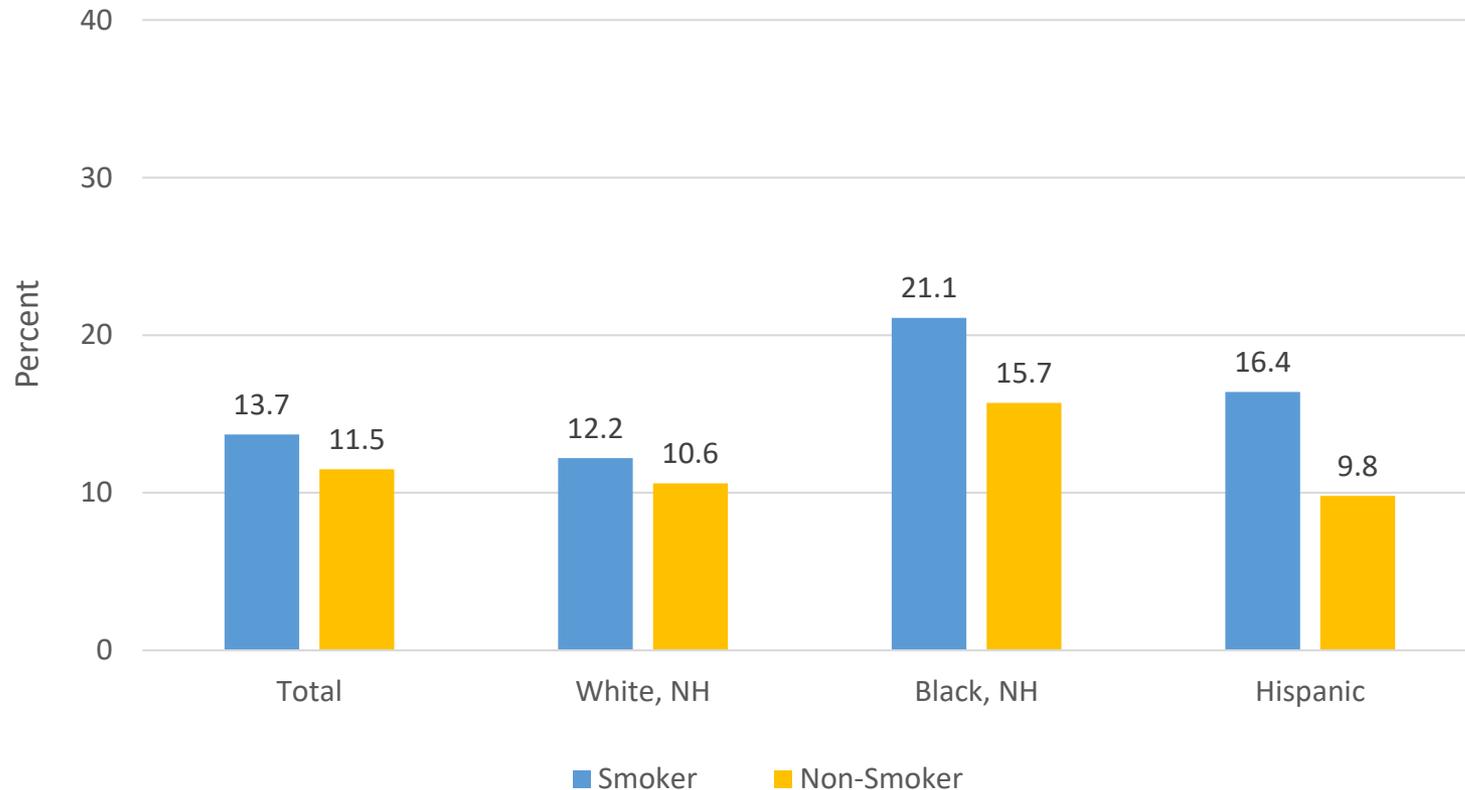


Note: Data are provisional; Preterm is defined as <37 weeks gestation.

* Percent of preterm births of all live births and all preterm births from mothers who did or did not smoke during pregnancy.

Source: Health Statistics Branch, Arkansas Department of Health

Percent of Preterm Births* by Race/Ethnicity and Maternal Smoking Status During Pregnancy Arkansas 2021



Note: Data are provisional; Preterm is defined as <37 weeks gestation.

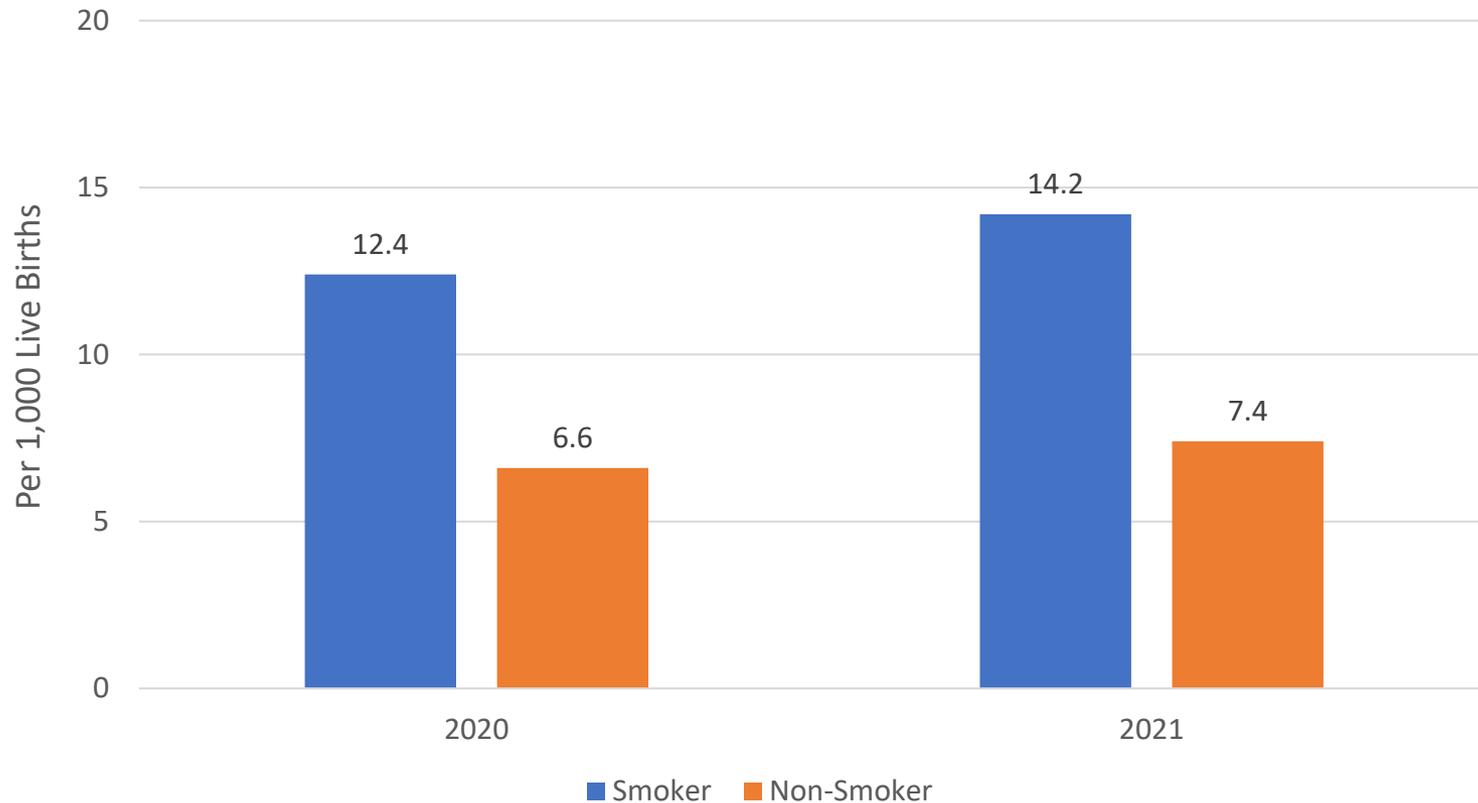
* Percent of preterm births of all live births and all low birthweight births from mothers who smoked during pregnancy.

Source: Health Statistics Branch, Arkansas Department of Health

C. Infant Mortality and Maternal Smoking

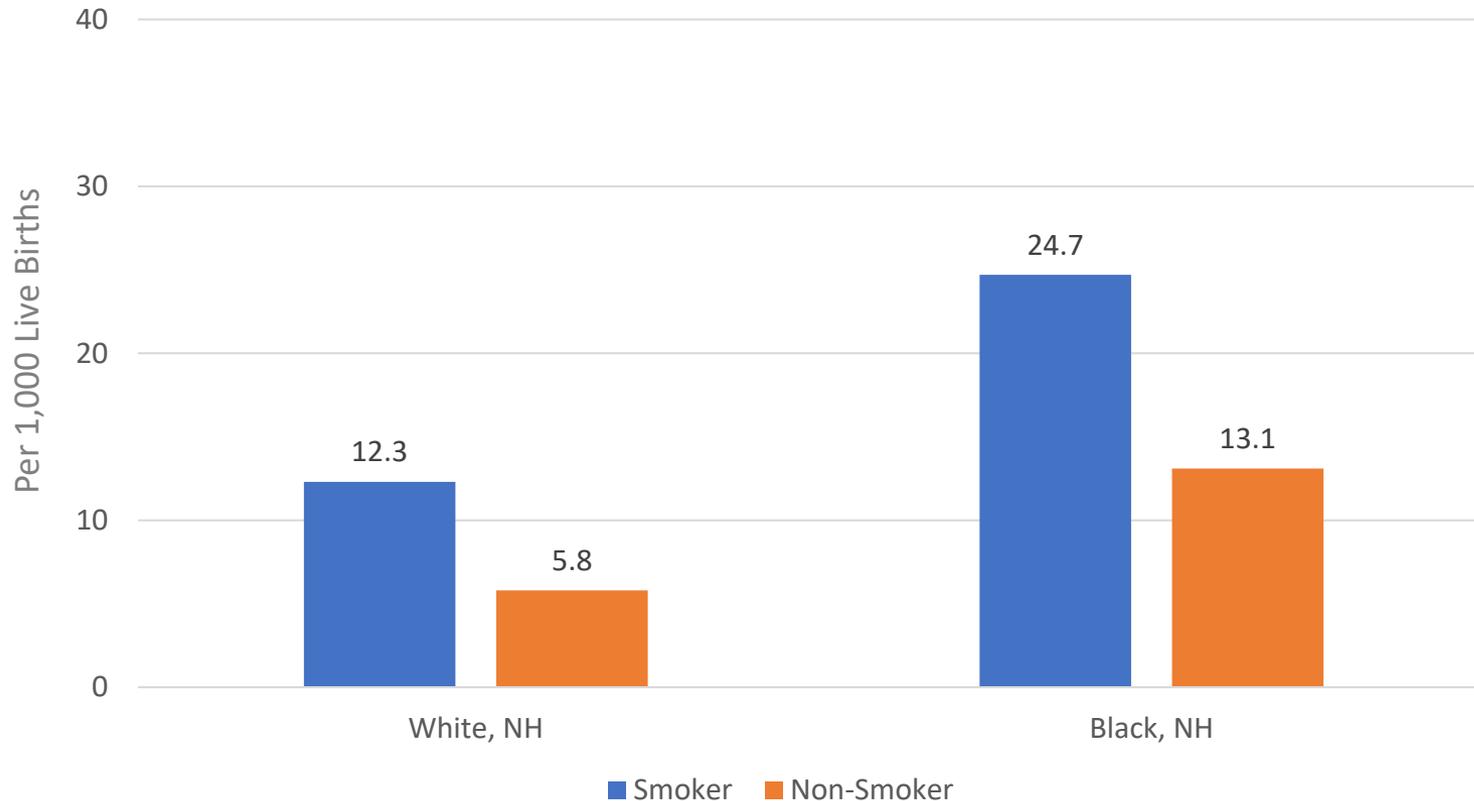
Infant Mortality Rate by Maternal Smoking Status During Pregnancy

Arkansas 2020-2021



Note: Data are provisional and are based on death year. N = 268 and 307, respectively.
Source: Health Statistics Branch, Arkansas Department of Health

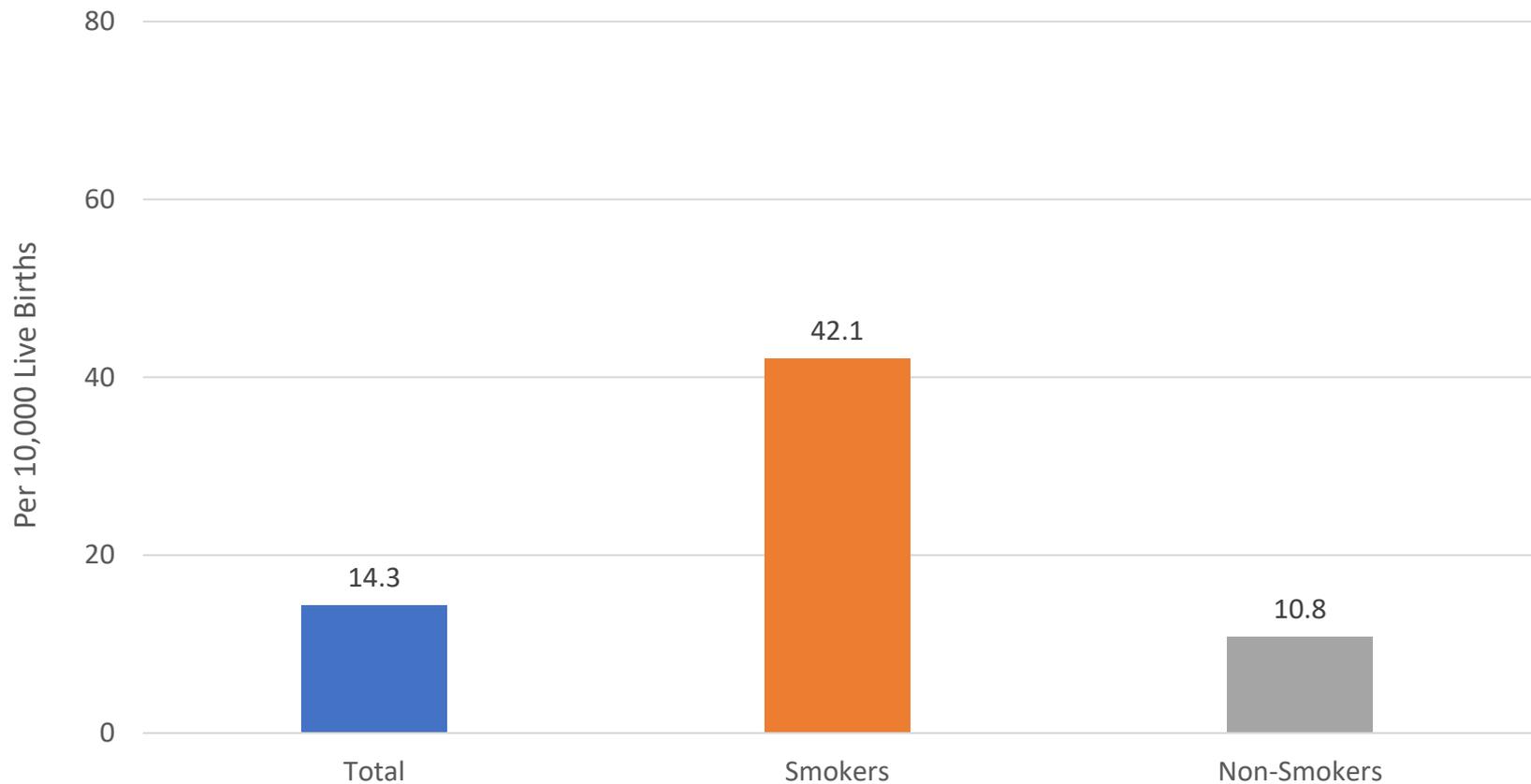
Infant Mortality Rate by Race/Ethnicity and Maternal Smoking Status During Pregnancy Arkansas 2021



Note: Data are provisional and are based on death year. NH = Non-Hispanic, *Insufficient data for Hispanic Smokers. Total number of infant deaths, (N) = 307.

Source: Health Statistics Branch, Arkansas Department of Health

SIDS Mortality Rate by Maternal Smoking Status Arkansas 2021



Note: Data are provisional and are based on death year. Total number of SIDS deaths, (N) = 54.

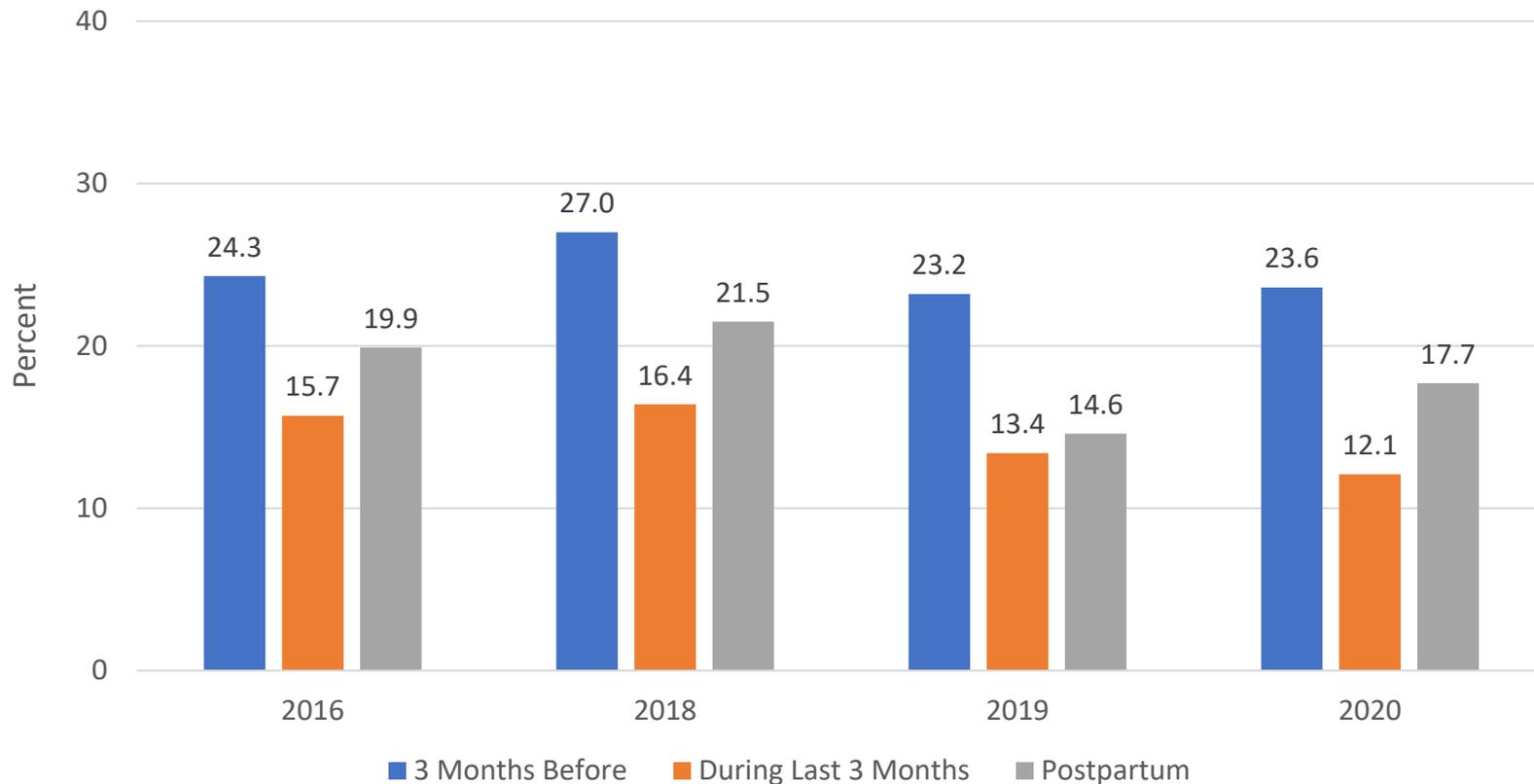
SIDS = Sudden Infant Death Syndrome

Source: Health Statistics Branch, Arkansas Department of Health

D. PRAMS* Indicators

* PRAMS = Pregnancy Risk Assessment Monitoring System

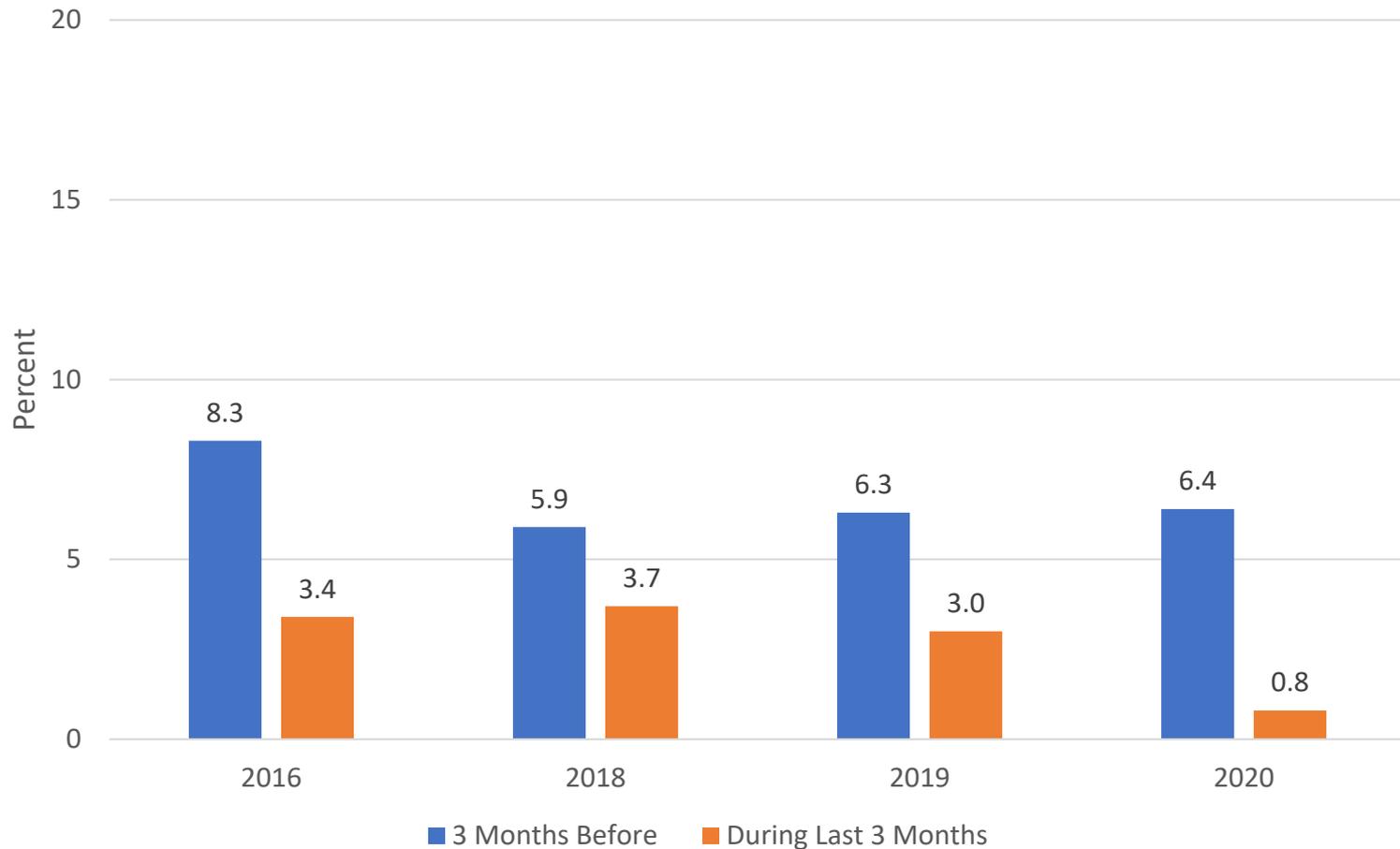
Percent of Respondents Who Smoked Cigarettes Before, During, or After Pregnancy Arkansas 2016-2020*



Source: Pregnancy Risk Assessment Monitoring System (PRAMS). Any e-cigarette use: During the 3 months before pregnancy, during the last 3 months of pregnancy, and postpartum.

* 2017 data did not meet the required 55% response rate threshold.

Percent of Respondents Who Reported E-Cigarette Use Before or During Pregnancy Arkansas 2016-2020*



Source: Pregnancy Risk Assessment Monitoring System (PRAMS). Any e-cigarette use: During the 3 months before pregnancy and during the last 3 months of pregnancy.

* 2017 data did not meet the required 55% response rate threshold.

E. BRFSS Indicators

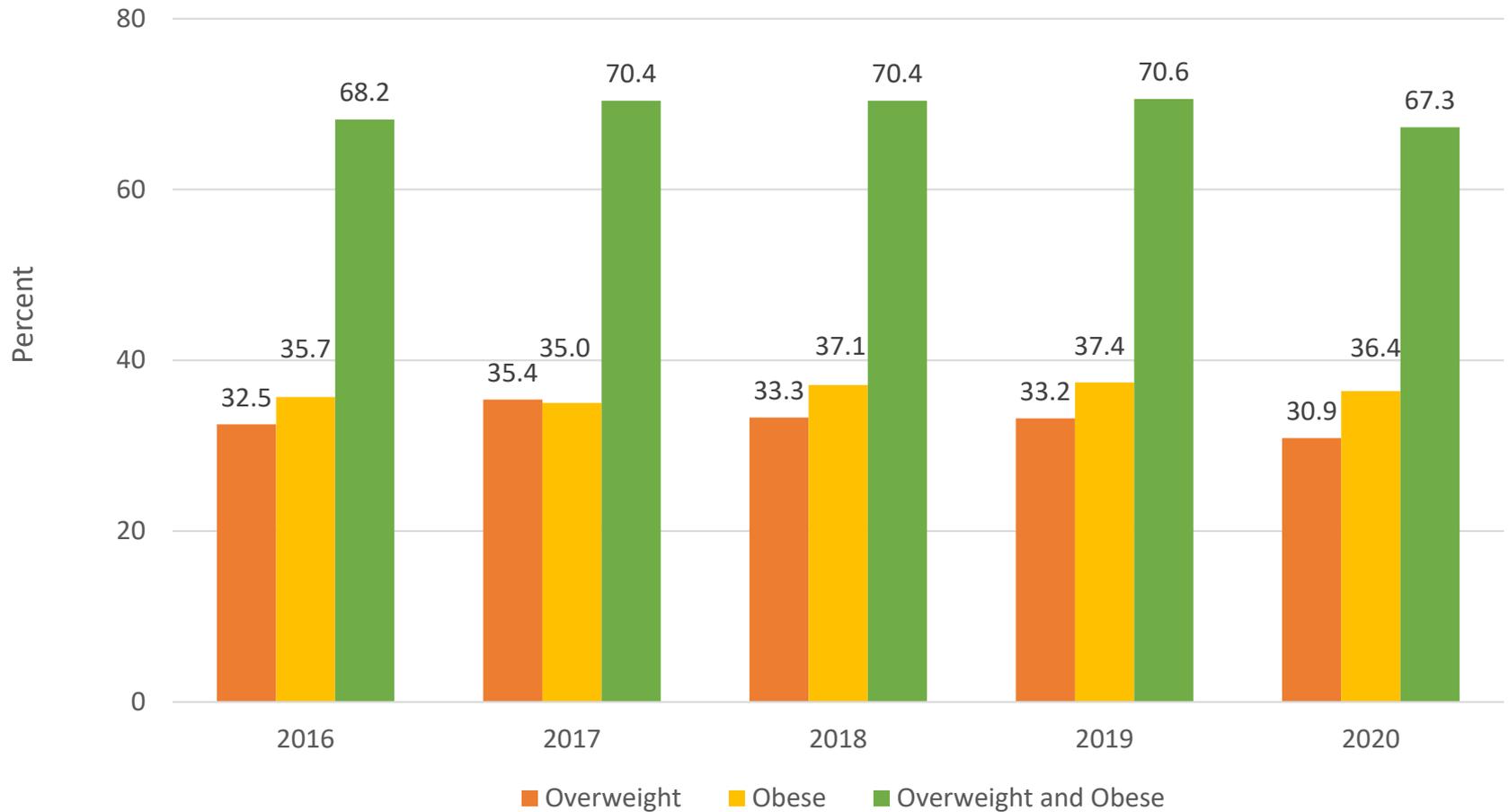
*BRFSS = Behavioral Risk Factor Surveillance System

SECTION V

Impact of Tobacco Use:
Overweight and Obese

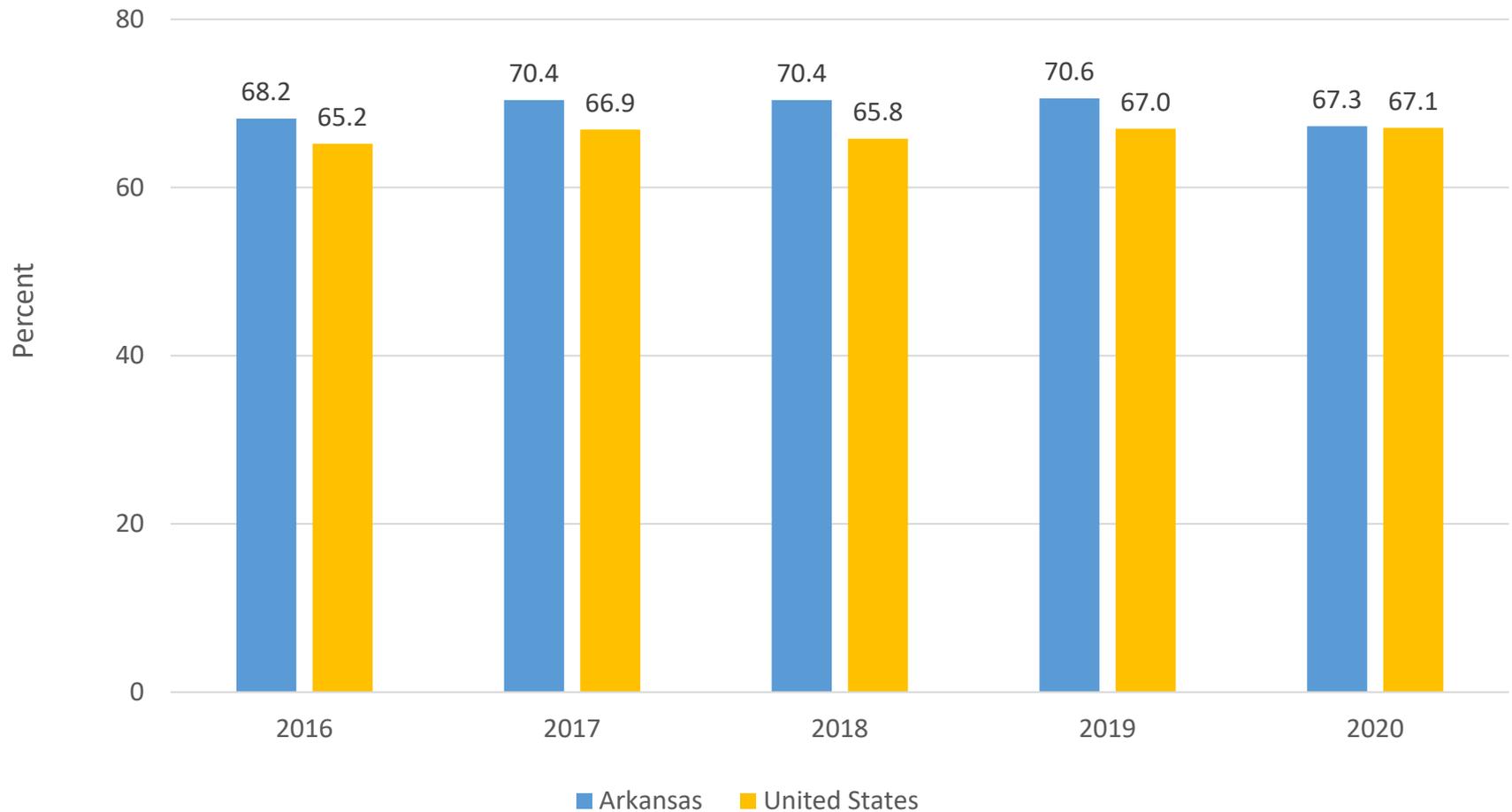
Percent of Adults Who are Overweight or Obese

Arkansas 2016-2020



Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

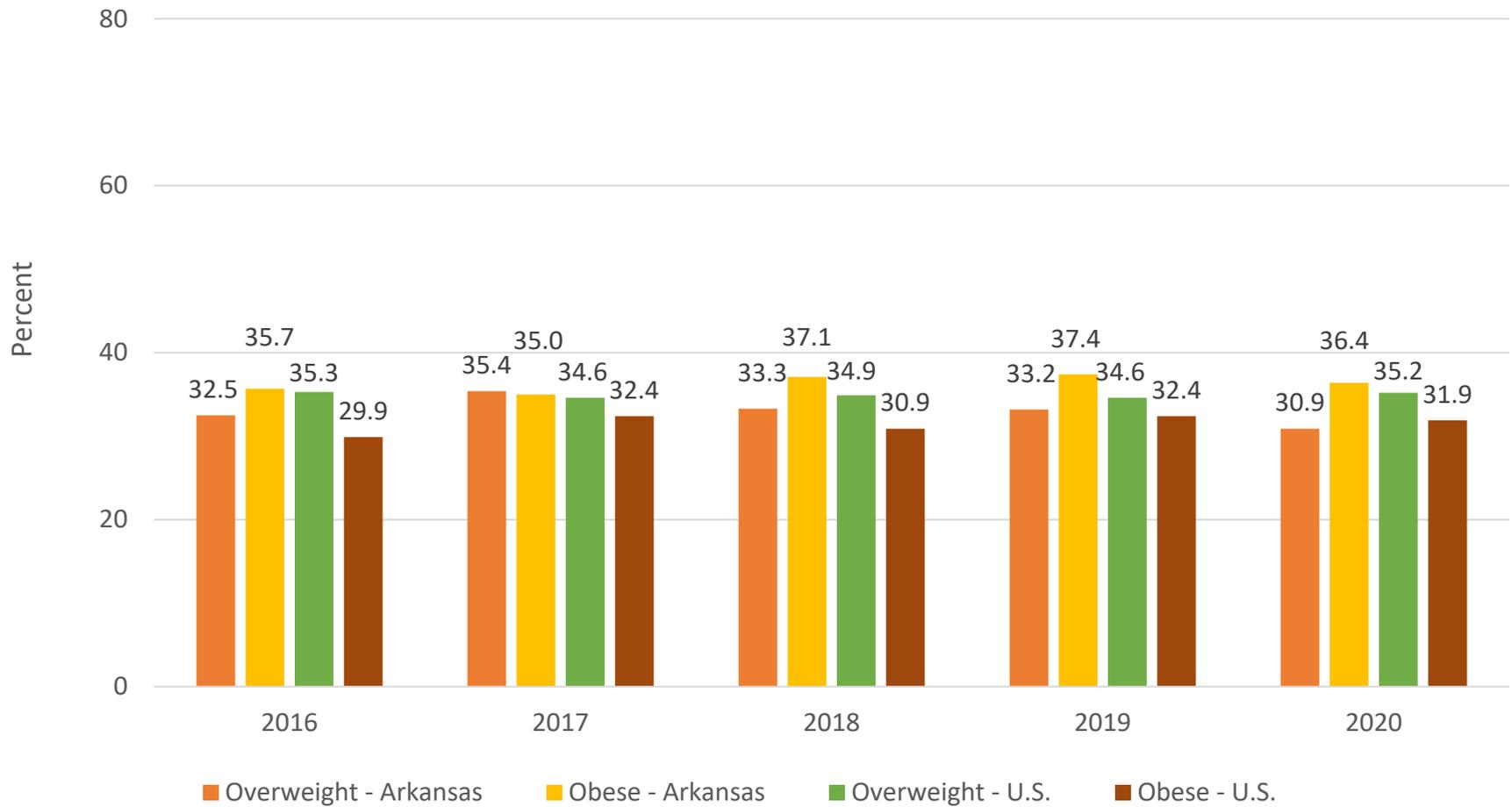
Percent of Adults Who are Overweight or Obese Arkansas and U.S. 2016-2020



Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0;

* The U.S. rate is the median of the states, D.C. and Territories. Source: Behavioral Risk Factor Surveillance System (BRFSS)

Percent of Adults Who are Overweight or Obese Arkansas and U.S. 2016-2020



Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0

* The U.S. rate is the median of the states, D.C. and Territories. Source: Behavioral Risk Factor Surveillance System (BRFSS)

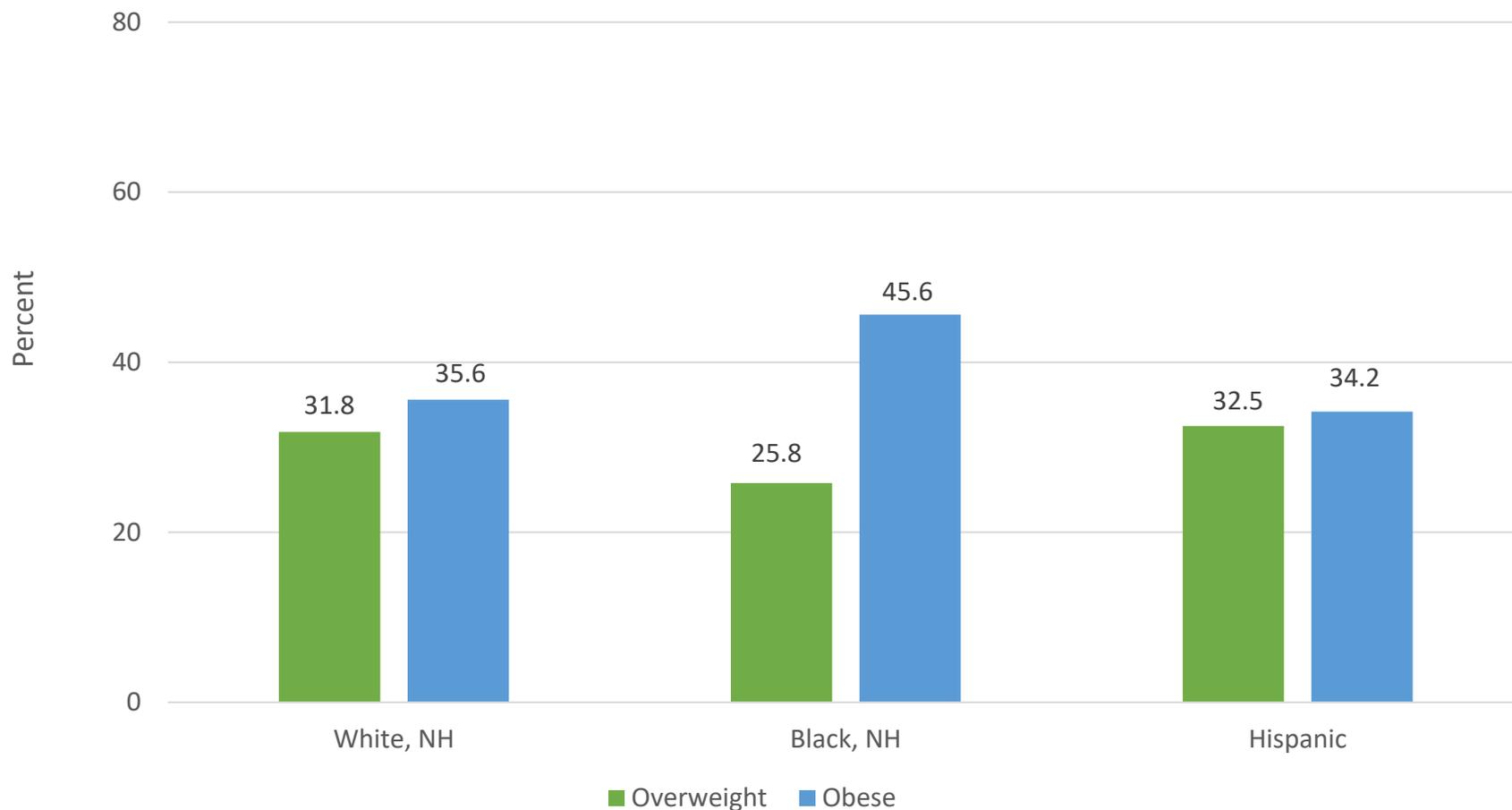
Percent of Adults Who are Overweight or Obese by Gender

Arkansas 2020



Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0.
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Percent of Adults Who are Overweight or Obese by Race/Ethnicity Arkansas 2020

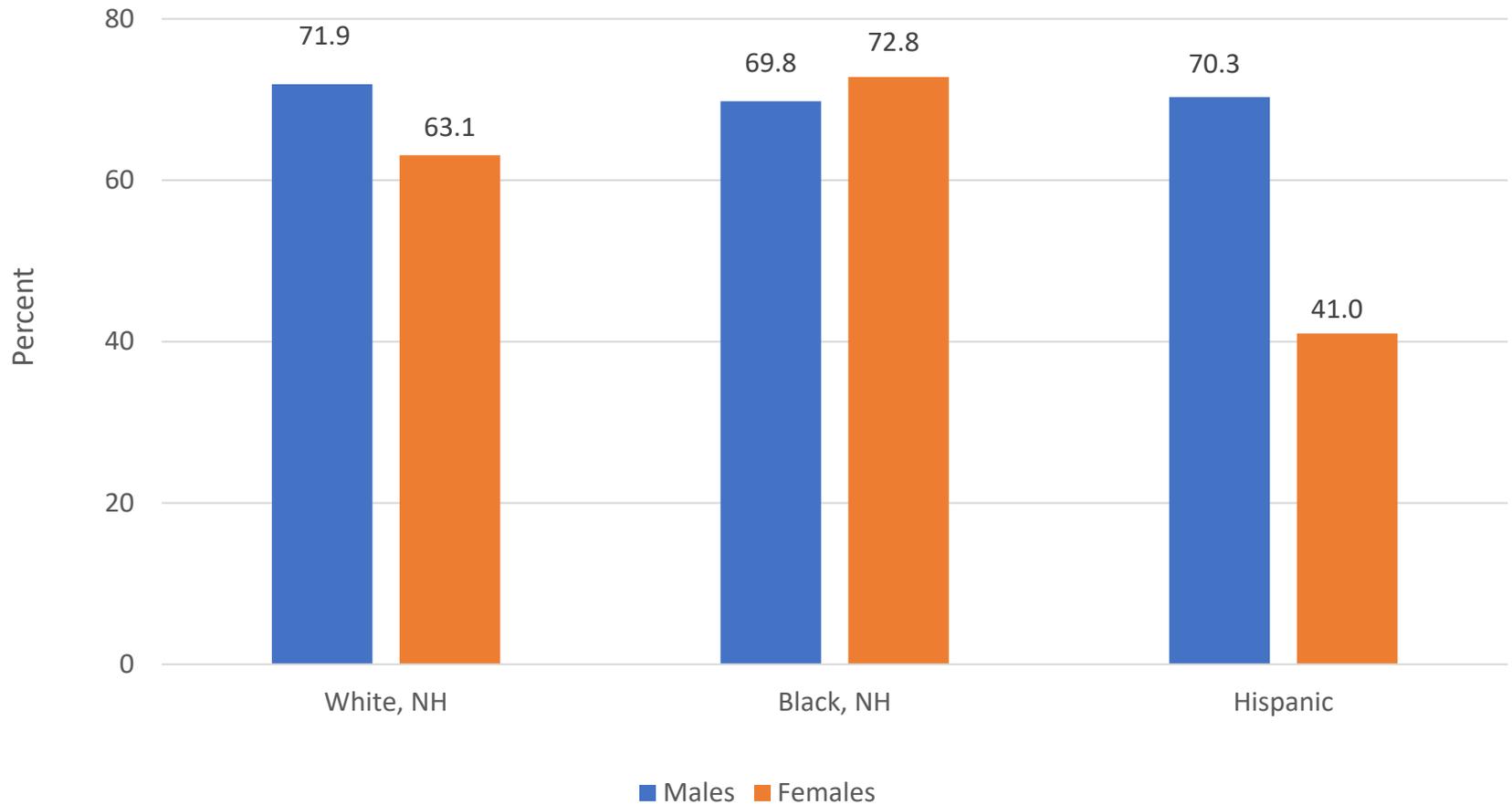


Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0.

NH = non-Hispanic

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Percent of Adults Who are Overweight or Obese by Race/Ethnicity and Gender Arkansas 2020

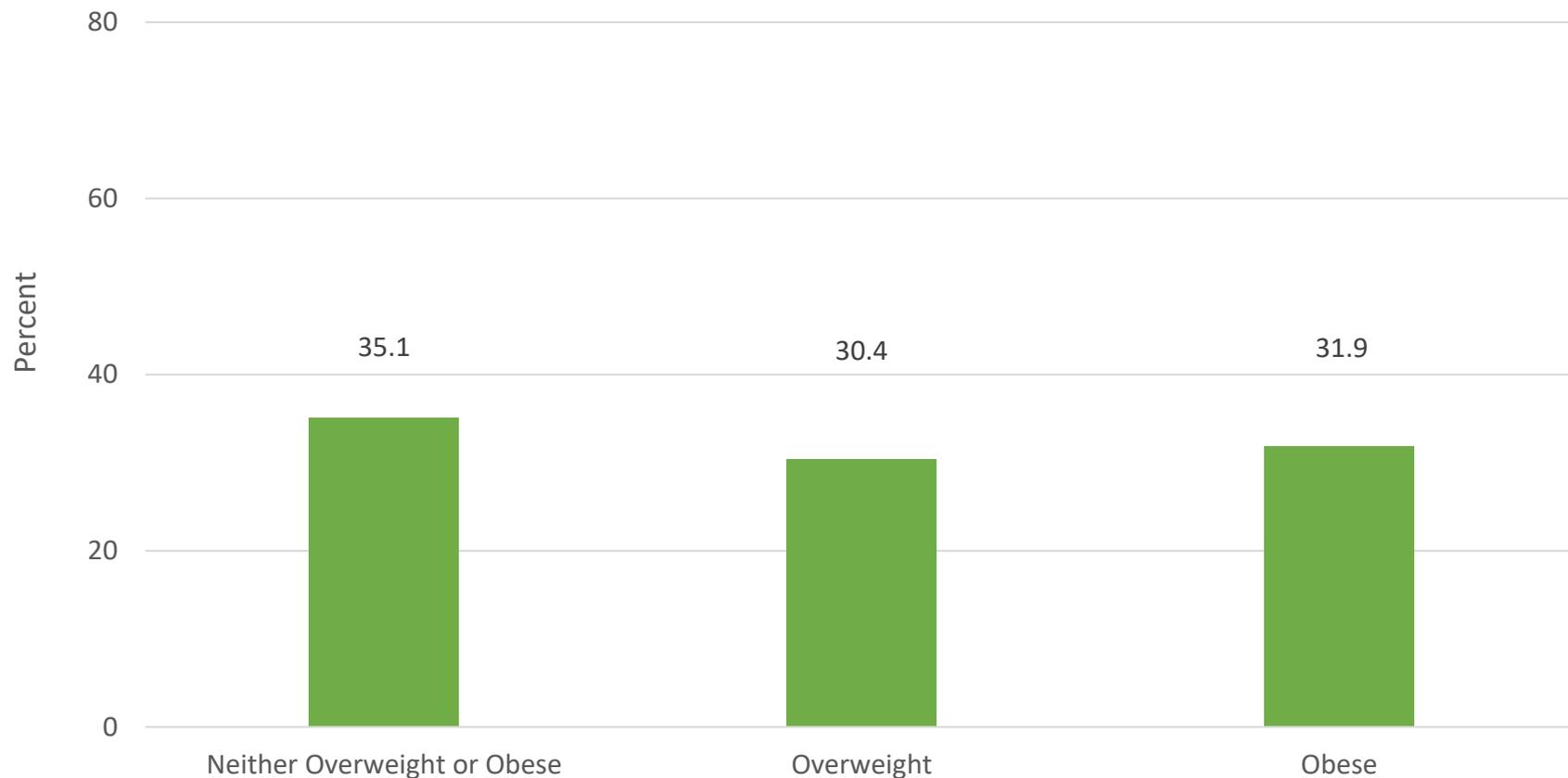


Body Mass Index (BMI) Categories: Overweight = 25.0-29.9; Obese \geq 30.0.

NH = non-Hispanic

Source: Behavioral Risk Factor Surveillance System Web Enabled Analysis Tool (BRFSS WEAT)

Percent of Adults Who Are Current Smokers by Weight Classification Categories Using BMI Arkansas 2020



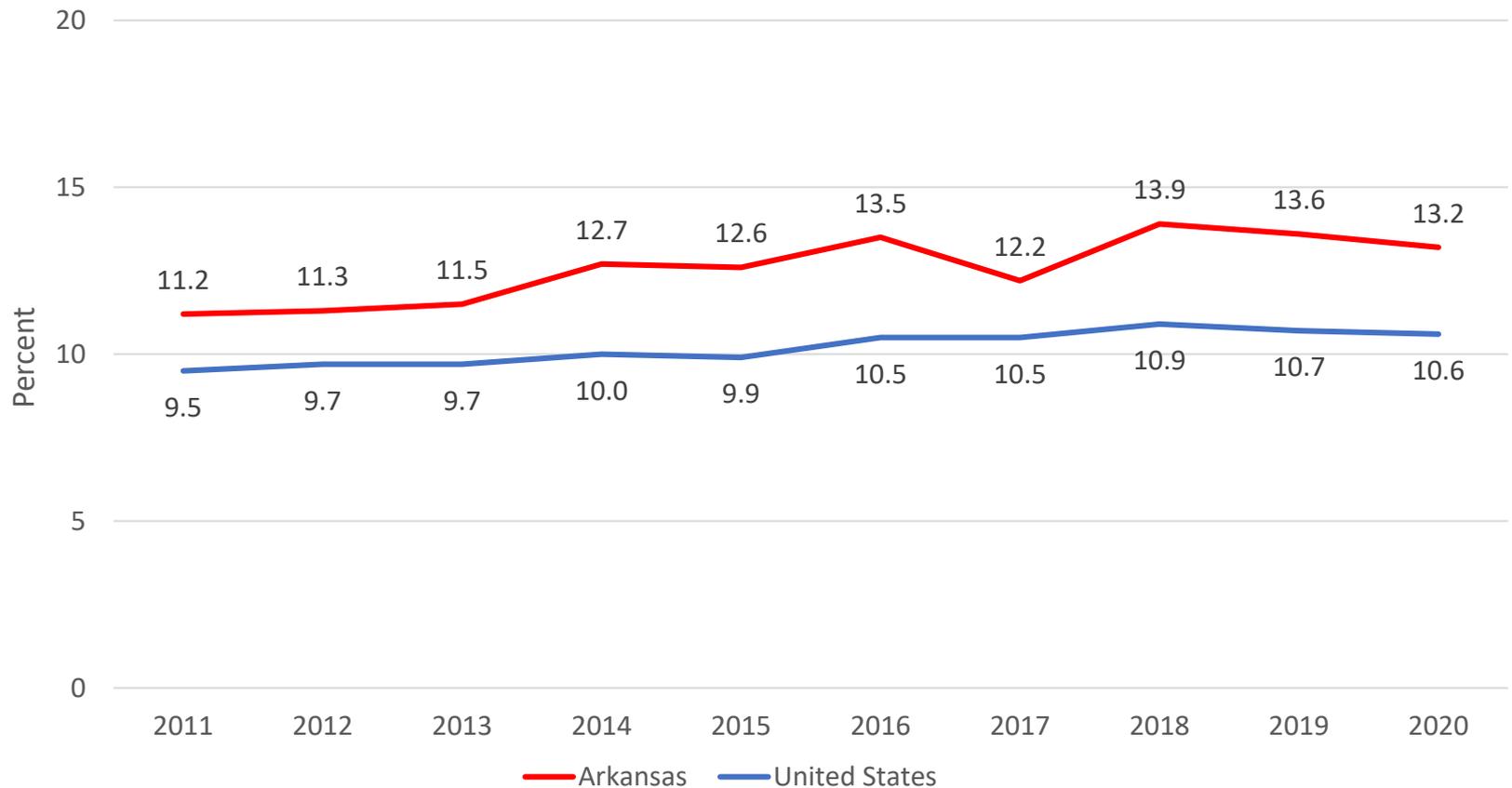
Body Mass Index (BMI) Categories: Neither Overweight or Obese <25.0; Overweight = 25.0-29.9; Obese \geq 30.0.

Source: Behavioral Risk Factor Surveillance System Web Enabled Analysis Tool (BRFSS WEAT).

SECTION VI

Impact of Tobacco Use: Diabetes

Diabetes Prevalence Arkansas and U.S. 2011-2020



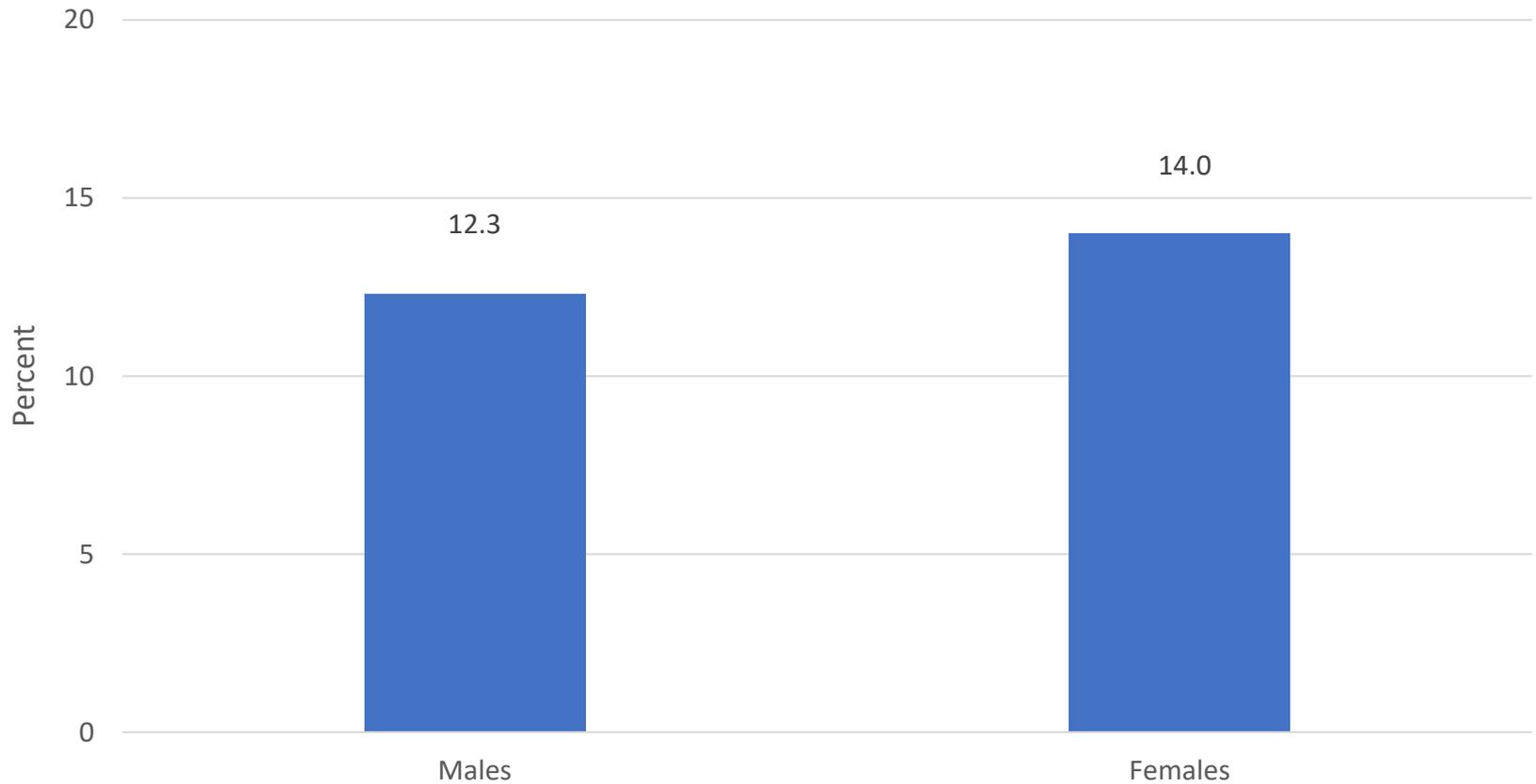
Note: the U.S. numbers are based on the median of the reporting states.

Question: Have you ever been told by a doctor that you have diabetes?

* The U.S. rate is the median of the states, D.C. and Territories. Source: Behavioral Risk Factor Surveillance System (BRFSS).

Diabetes Prevalence by Gender

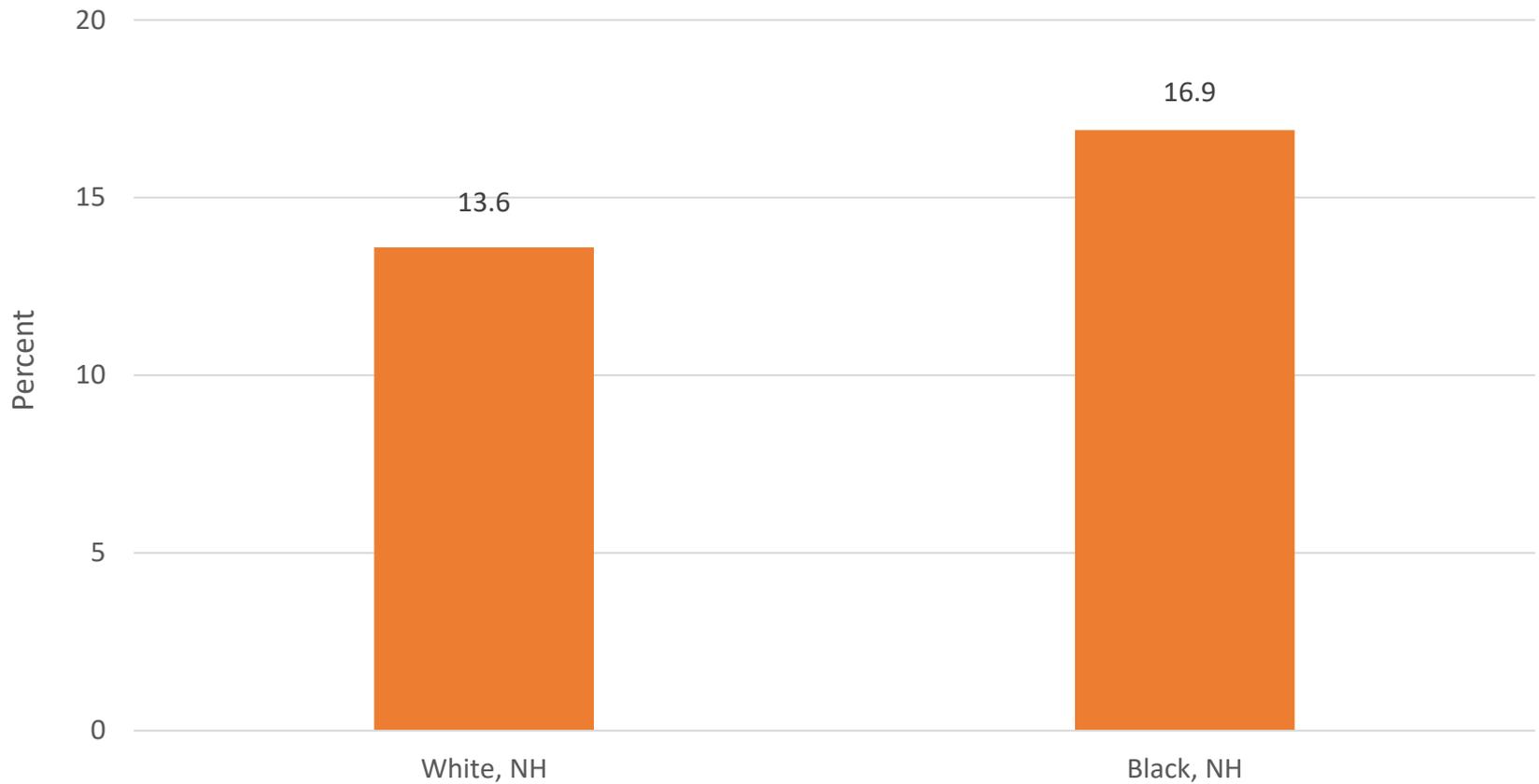
Arkansas 2020



Question: Have you ever been told by a doctor that you have diabetes?
Source: Behavioral Risk Factor Surveillance System (BRFSS)

Diabetes Prevalence by Race/Ethnicity

Arkansas 2020



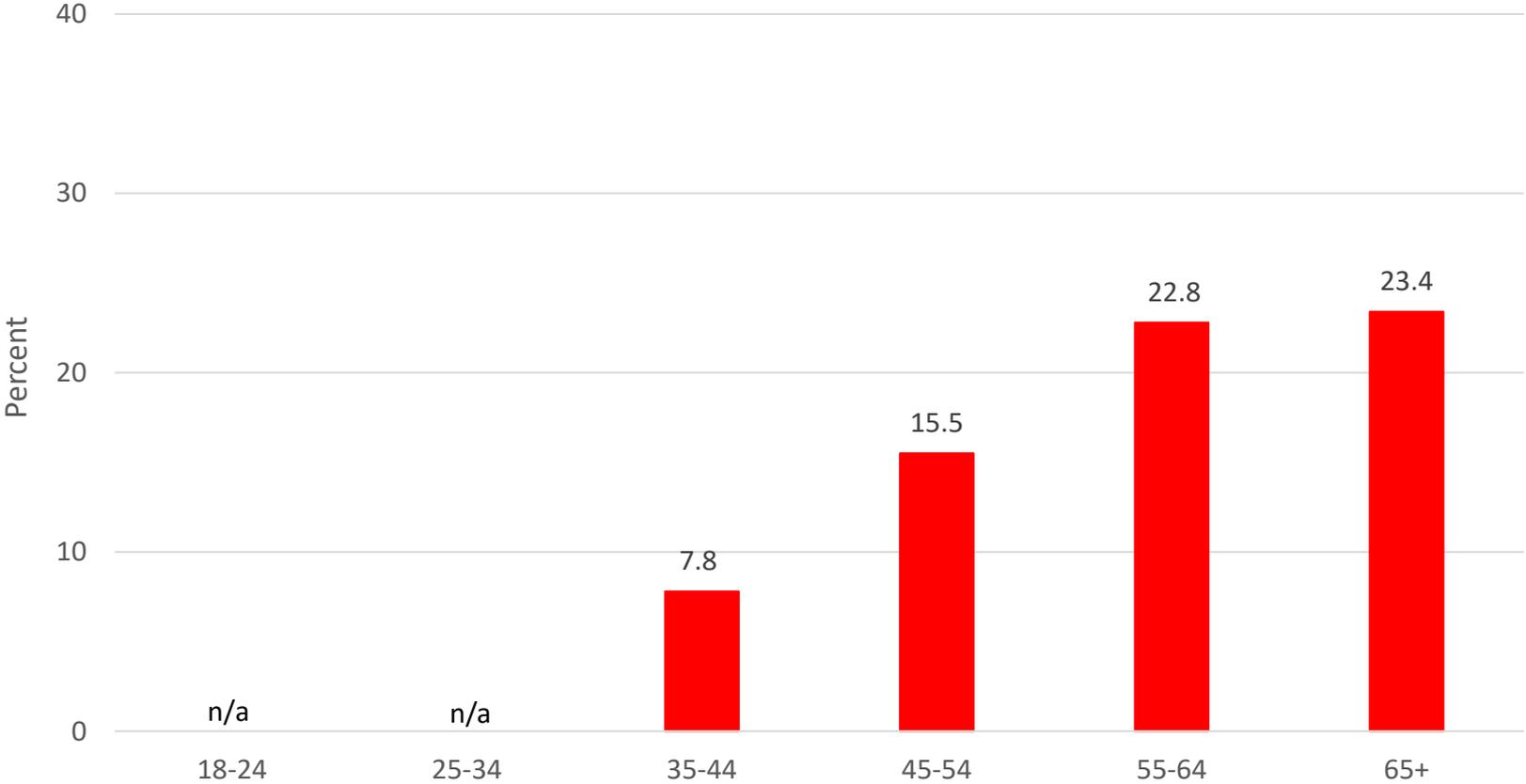
Question: Have you ever been told by a doctor that you have diabetes?

NH = Non-Hispanic

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Diabetes Prevalence by Age Group

Arkansas 2020



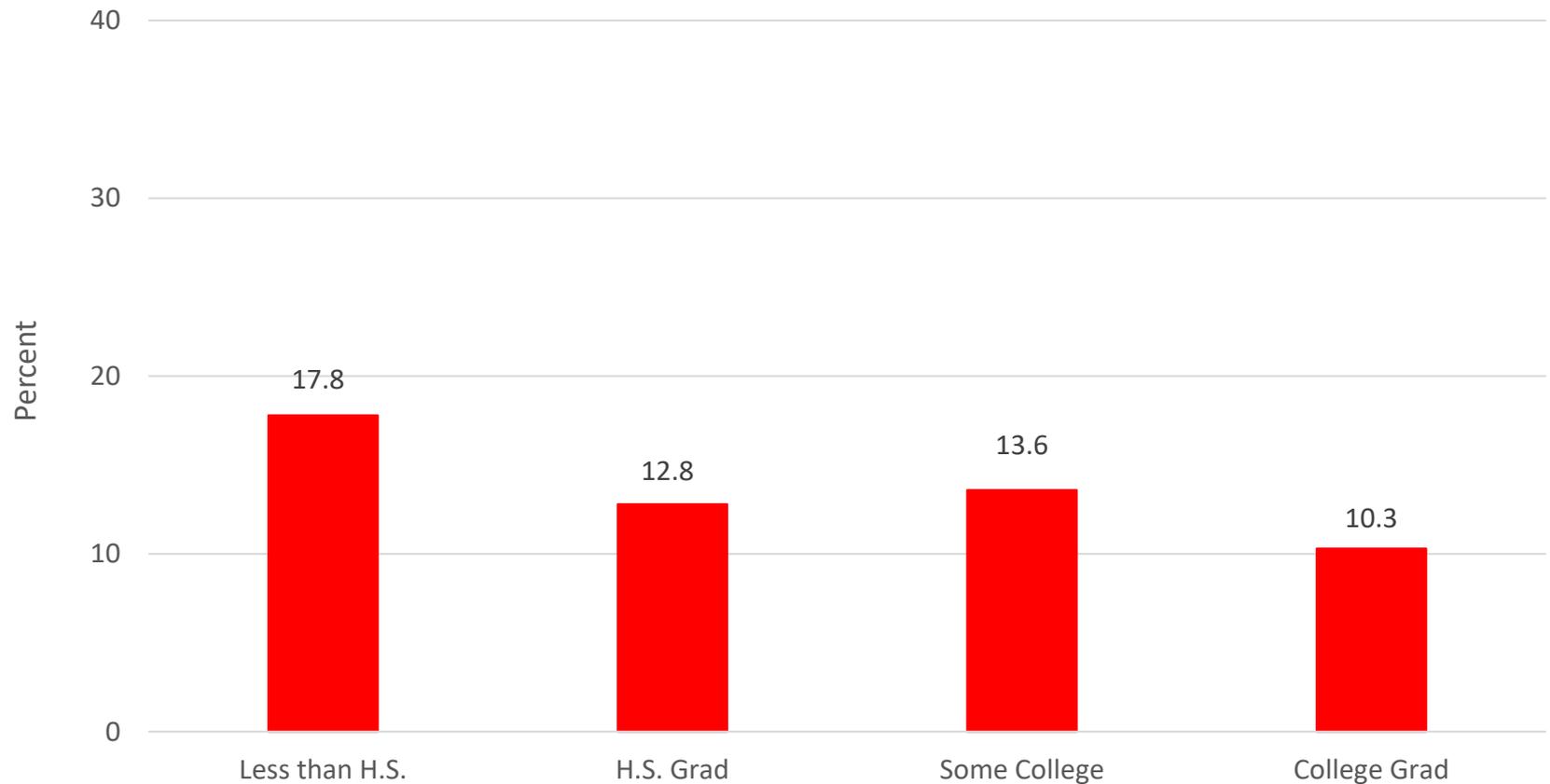
Question: Have you ever been told by a doctor that you have diabetes?

n/a = not available due to insufficient data

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Diabetes Prevalence by Education Level

Arkansas 2020



Question: Have you ever been told by a doctor that you have diabetes?

H.S. = High School

Source: Behavioral Risk Factor Surveillance System (BRFSS)

Diabetes Prevalence by Household Income

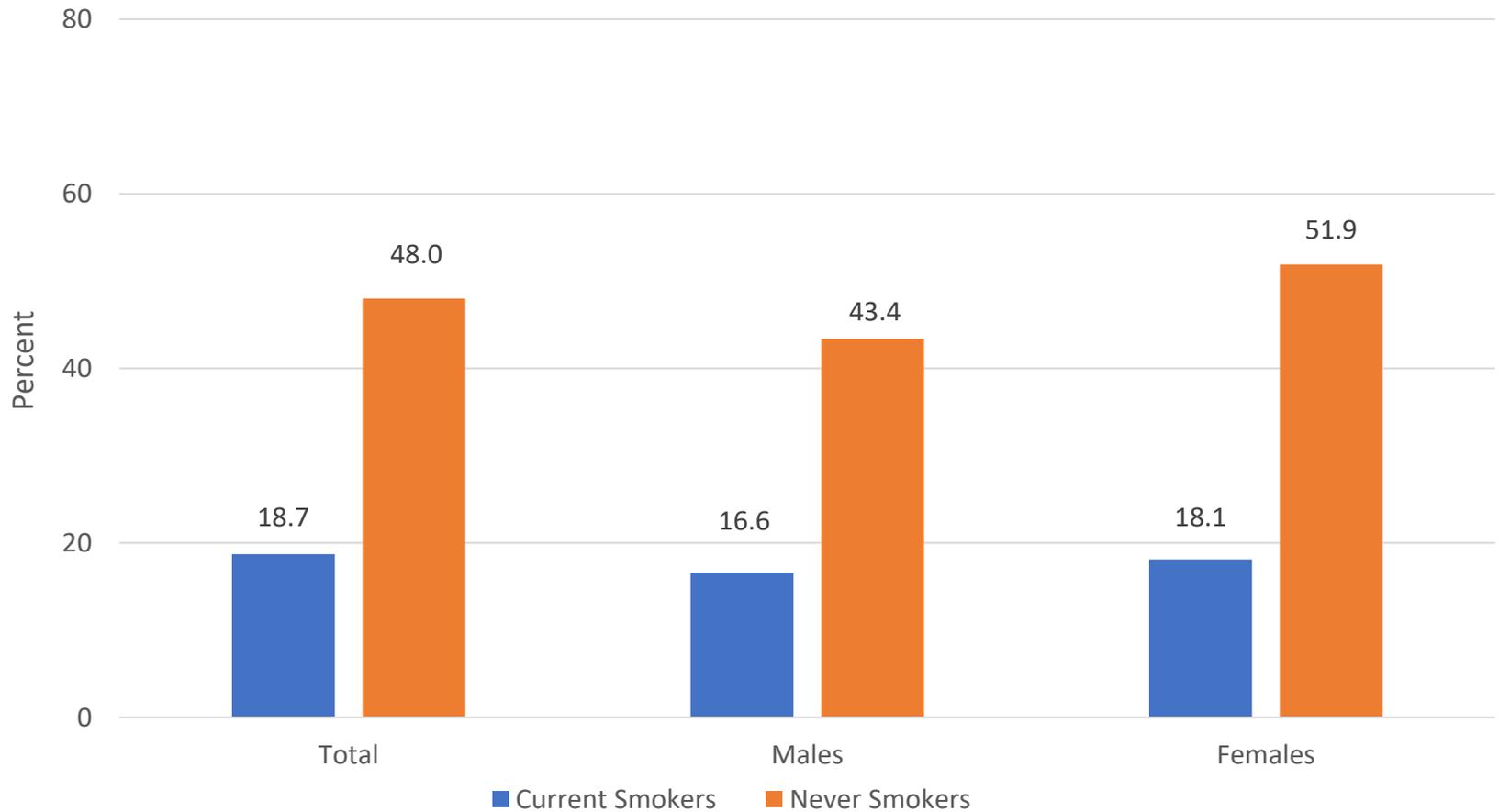
Arkansas 2020



Question: Have you ever been told by a doctor that you have diabetes?

Source: Behavioral Risk Factor Surveillance System (BRFSS)

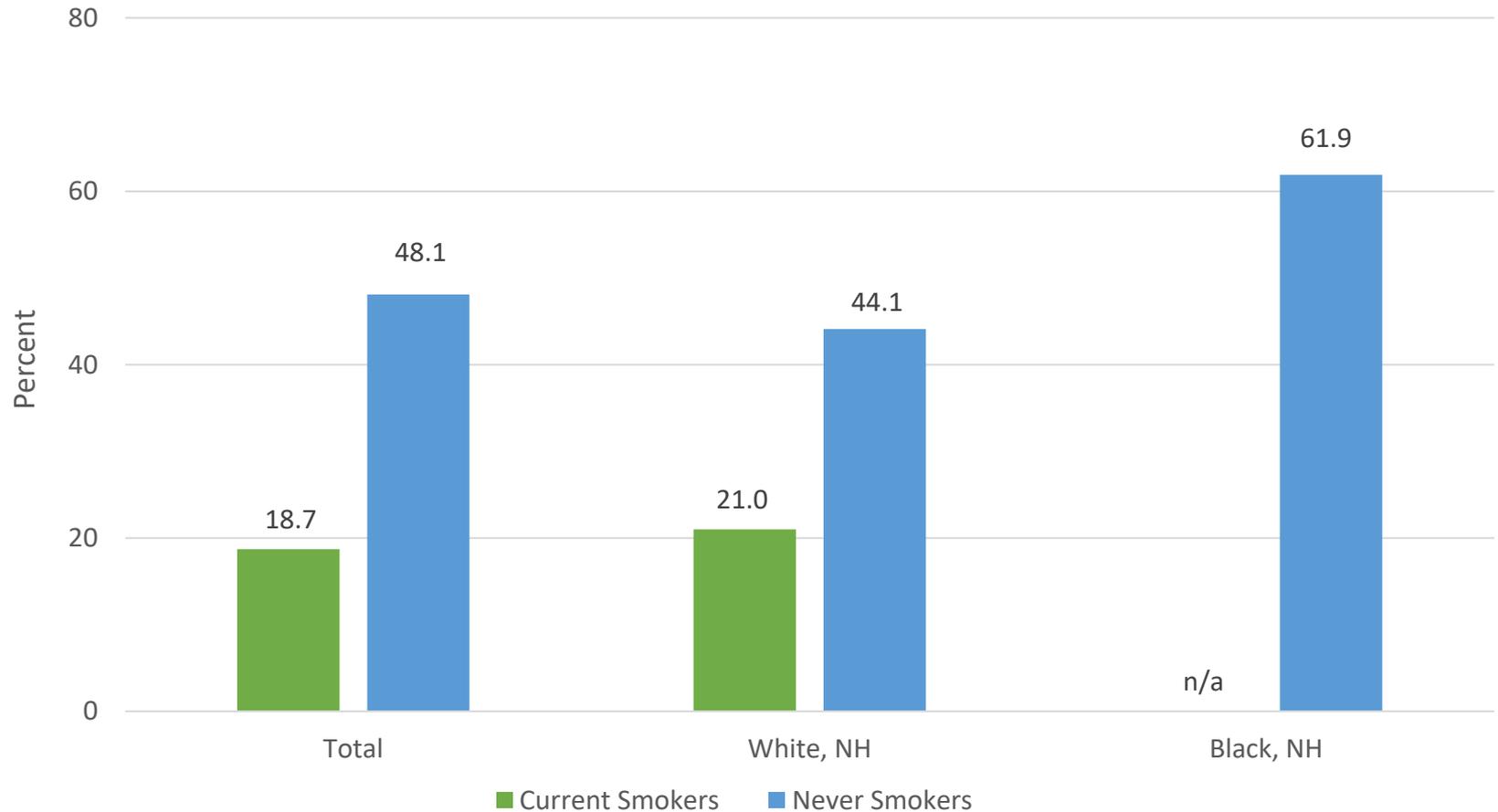
Diabetes Prevalence by Smoking Status and Gender Arkansas 2020



Question: Have you ever been told by a doctor that you have diabetes?

Source: Behavioral Risk Factor Surveillance System Web Enabled Analysis Tool (BRFSS WEAT)

Diabetes Prevalence by Smoking Status and Race/Ethnicity Arkansas 2020



Question: Have you ever been told by a doctor that you have diabetes?

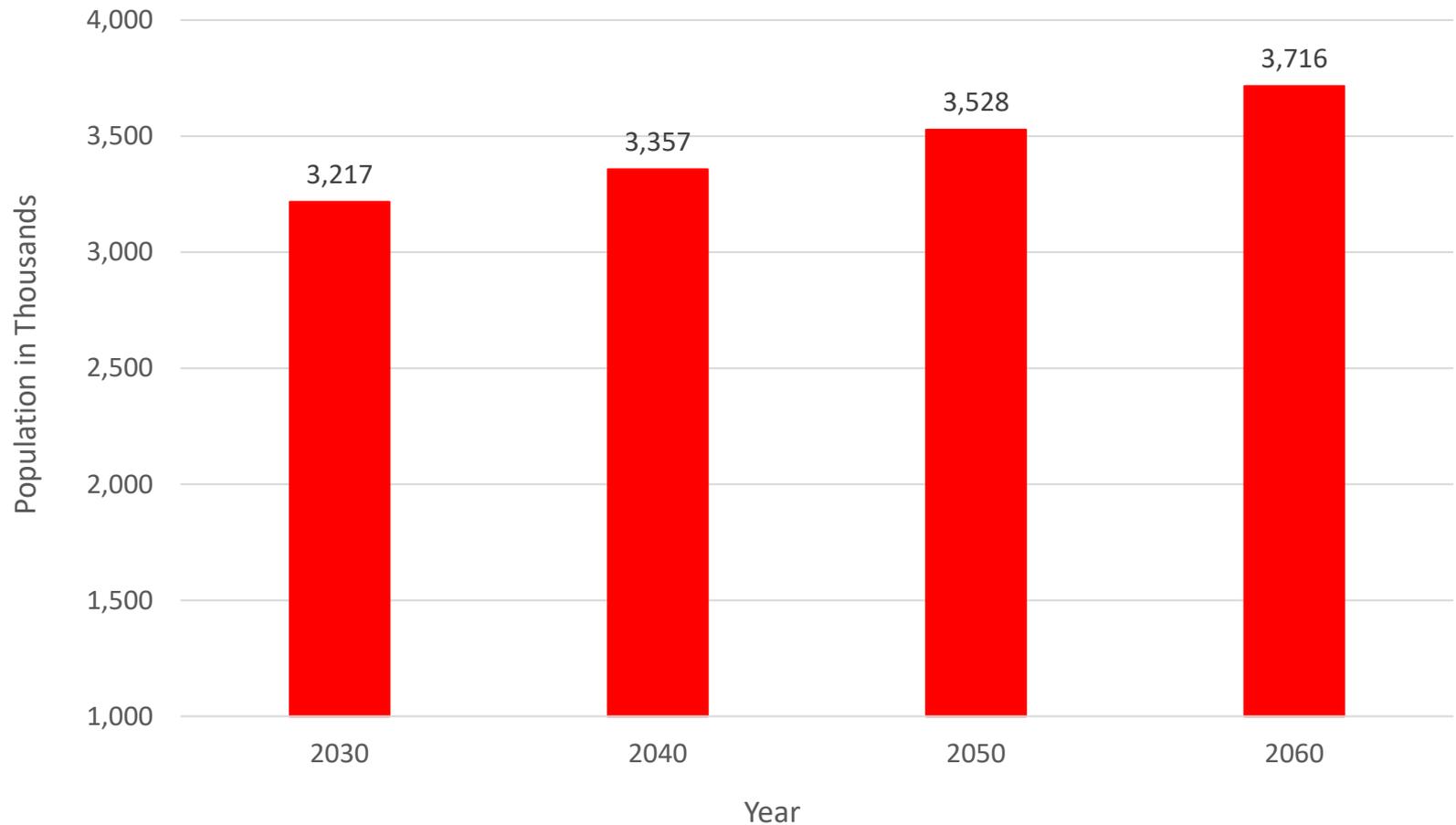
NH = Non-Hispanic. n/a = Insufficient data.

Source: Behavioral Risk Factor Surveillance System Web Enabled Analysis Tool (BRFSS WEAT)

SECTION VII
Demographics

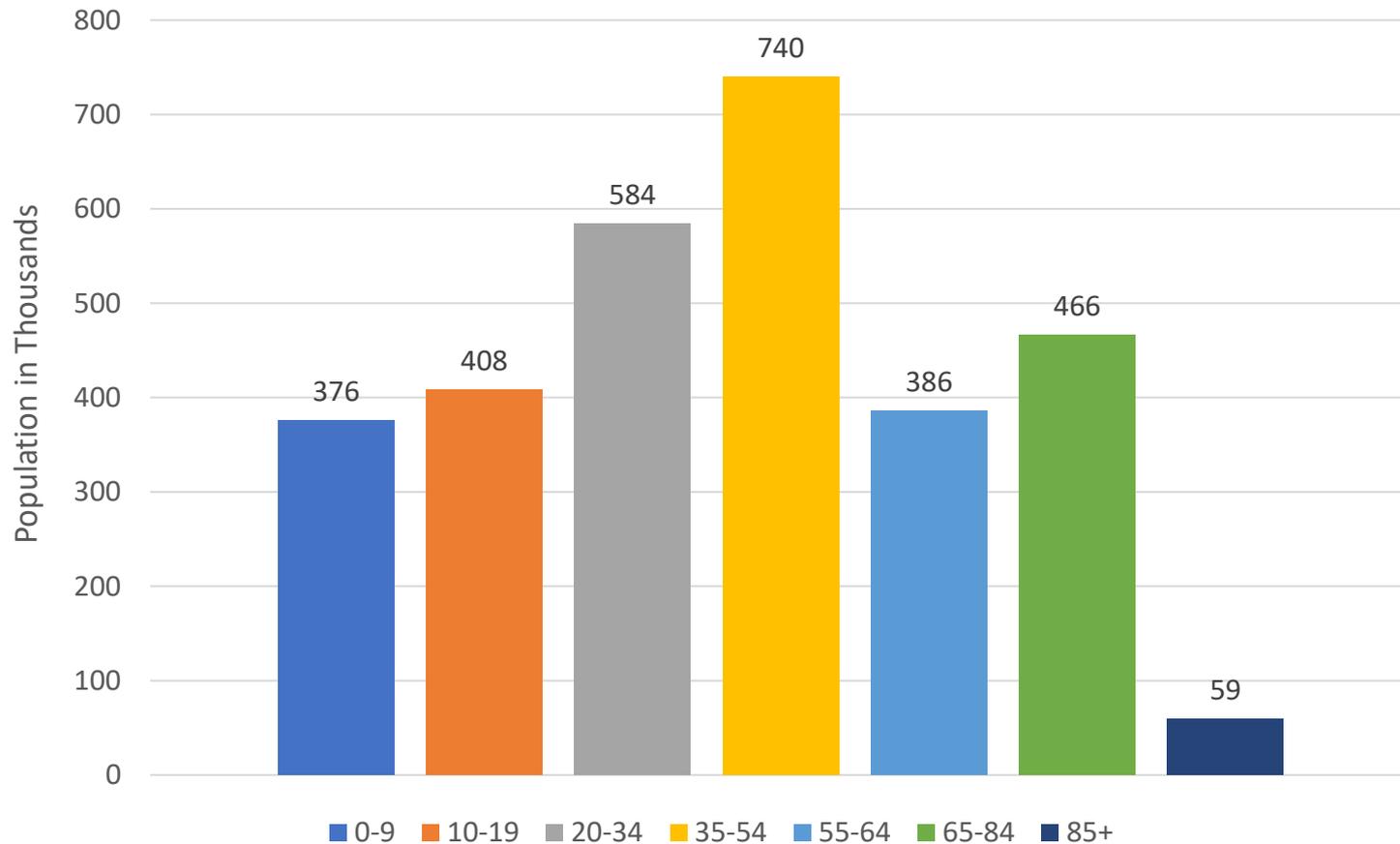
Current Population Estimate and Future Projections

Arkansas 2030-2060



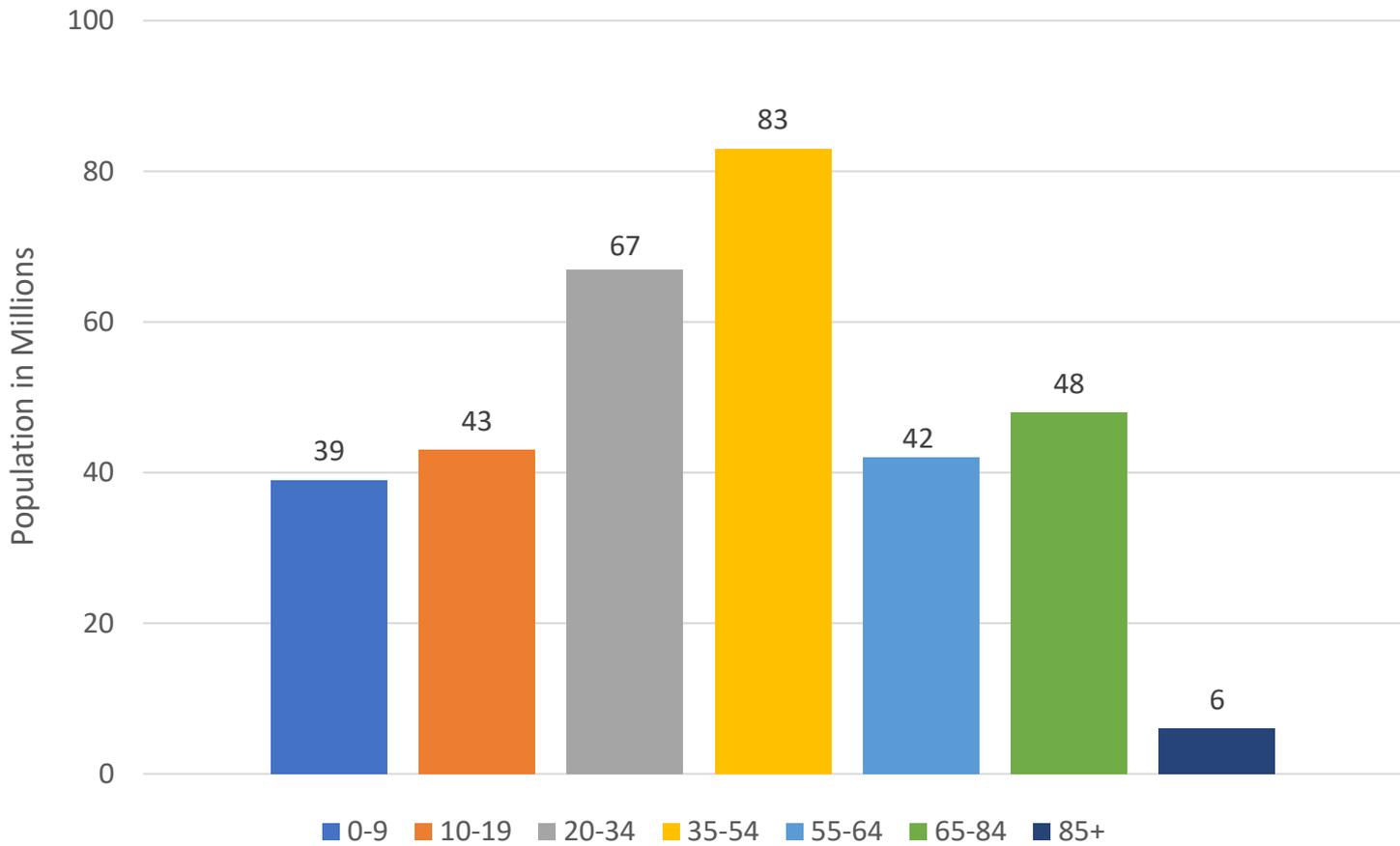
Population Estimates by Age Group

Arkansas 2019



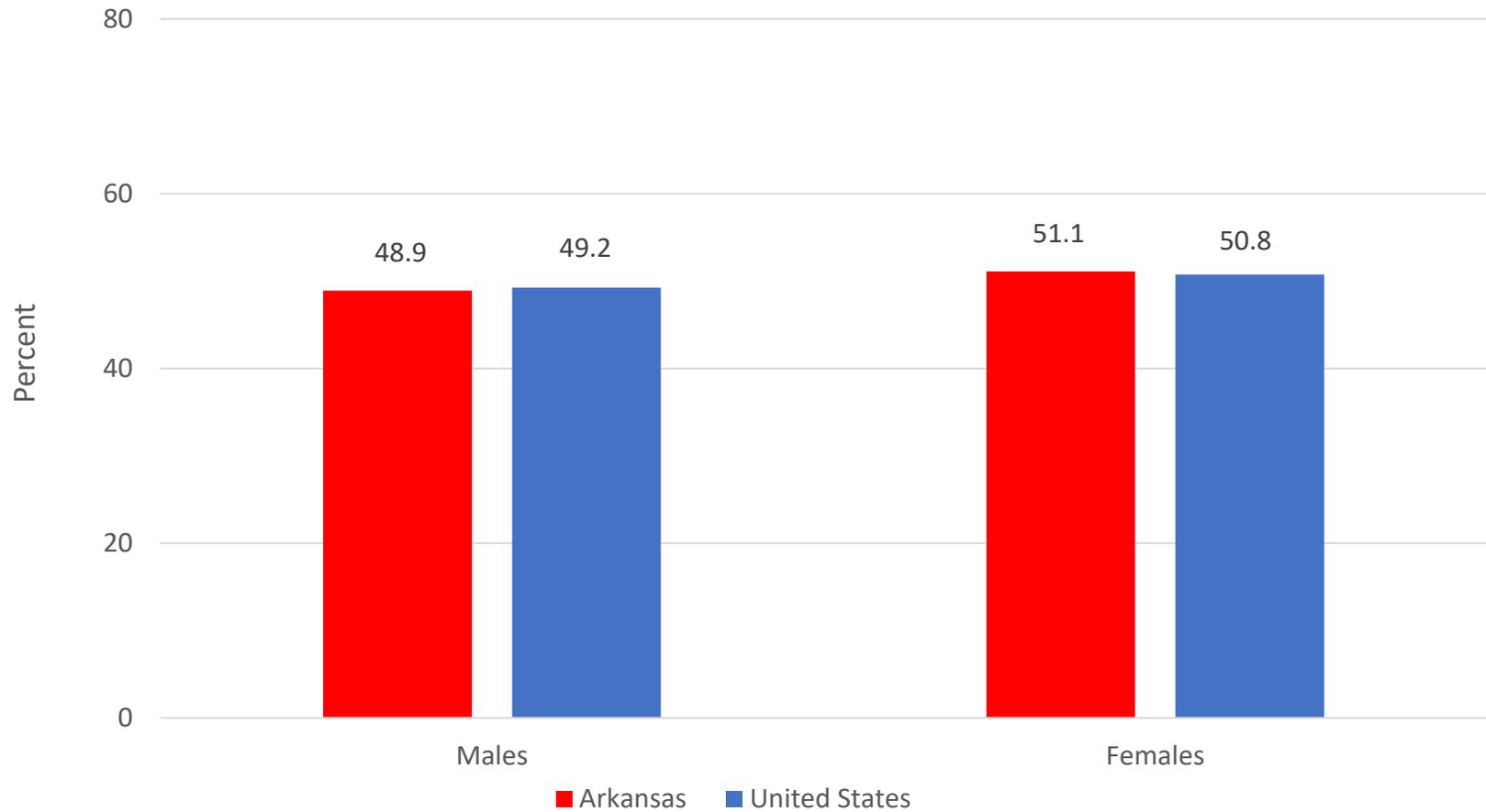
Source: U. S. Census Bureau, Population Division. Release Date: June 2020.

Population Estimates by Age Group U.S. 2019



Source: U. S. Census Bureau, Population Division. Release Date: June 2020.

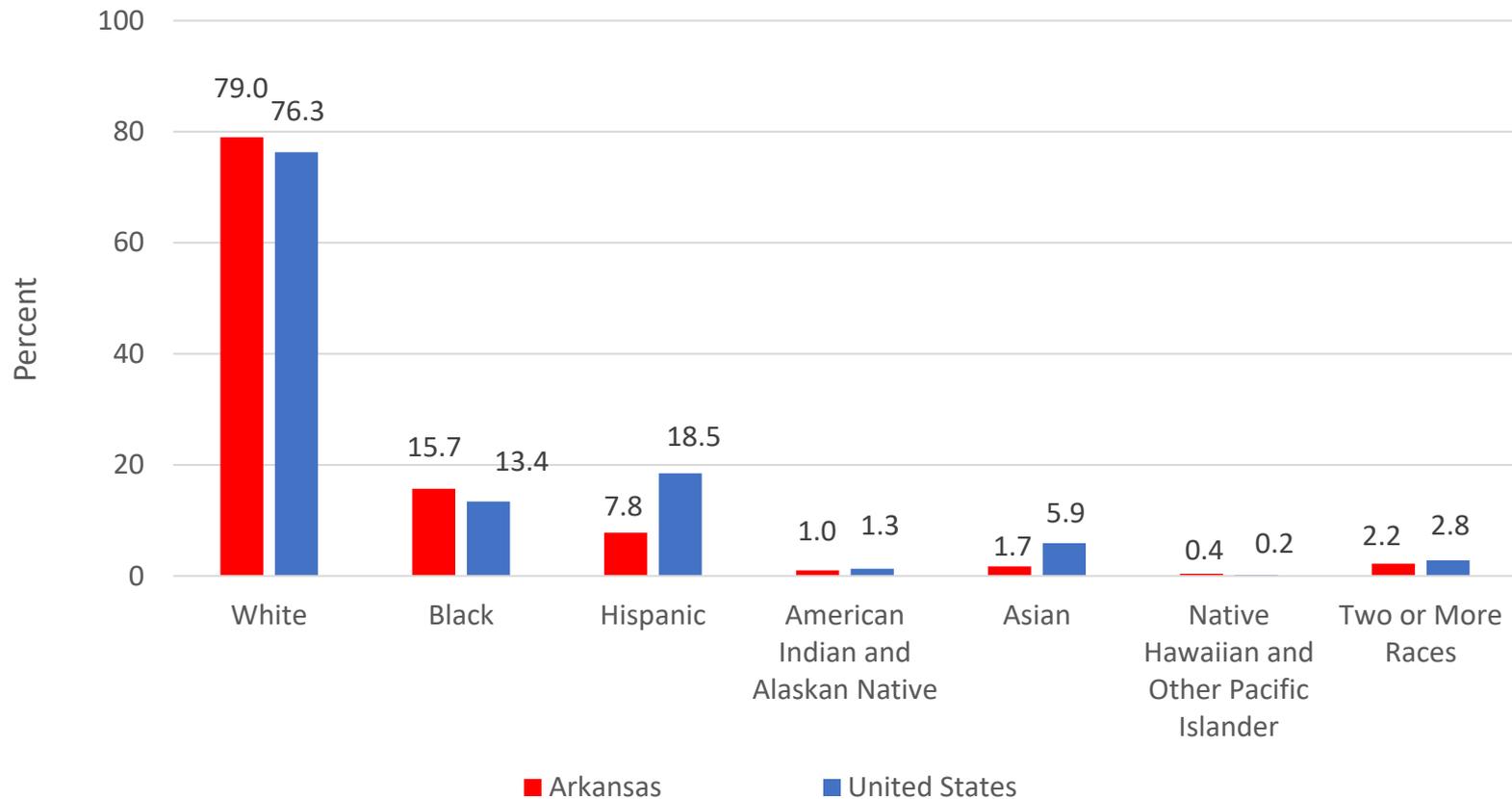
Population Estimates by Gender Arkansas and U.S. 2019



Source: U.S. Census Bureau, Population Division. Release Date: June 2020.

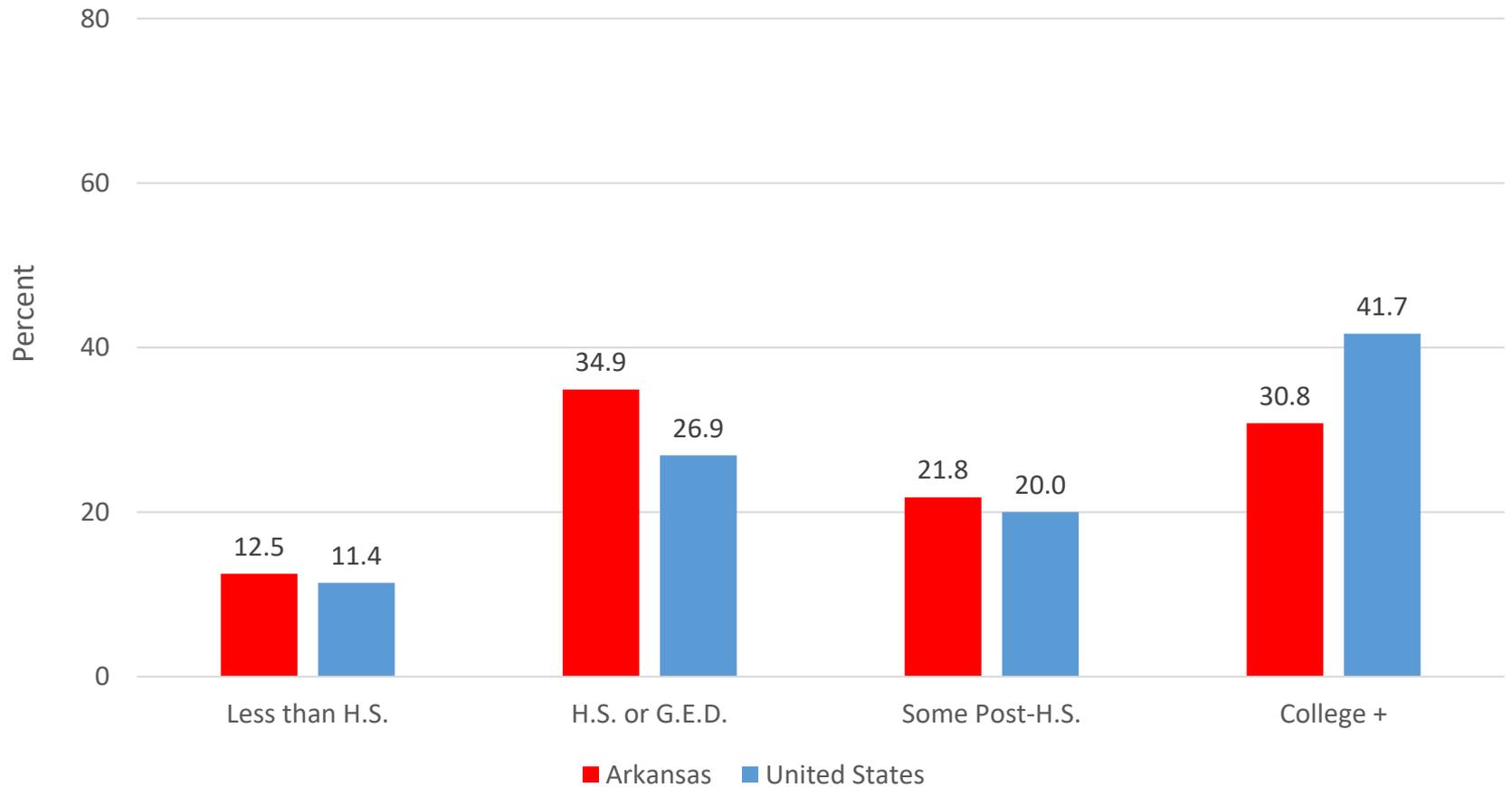
Population Estimates by Race/Ethnicity*

Arkansas and U.S. 2021



*Unless labeled as Hispanic, other classifications are non-Hispanic. (i.e. White is White, Non-Hispanic). Hispanic includes all races.
Source: U. S. Census Bureau, Population Division. Release Date: July 1, 2021.

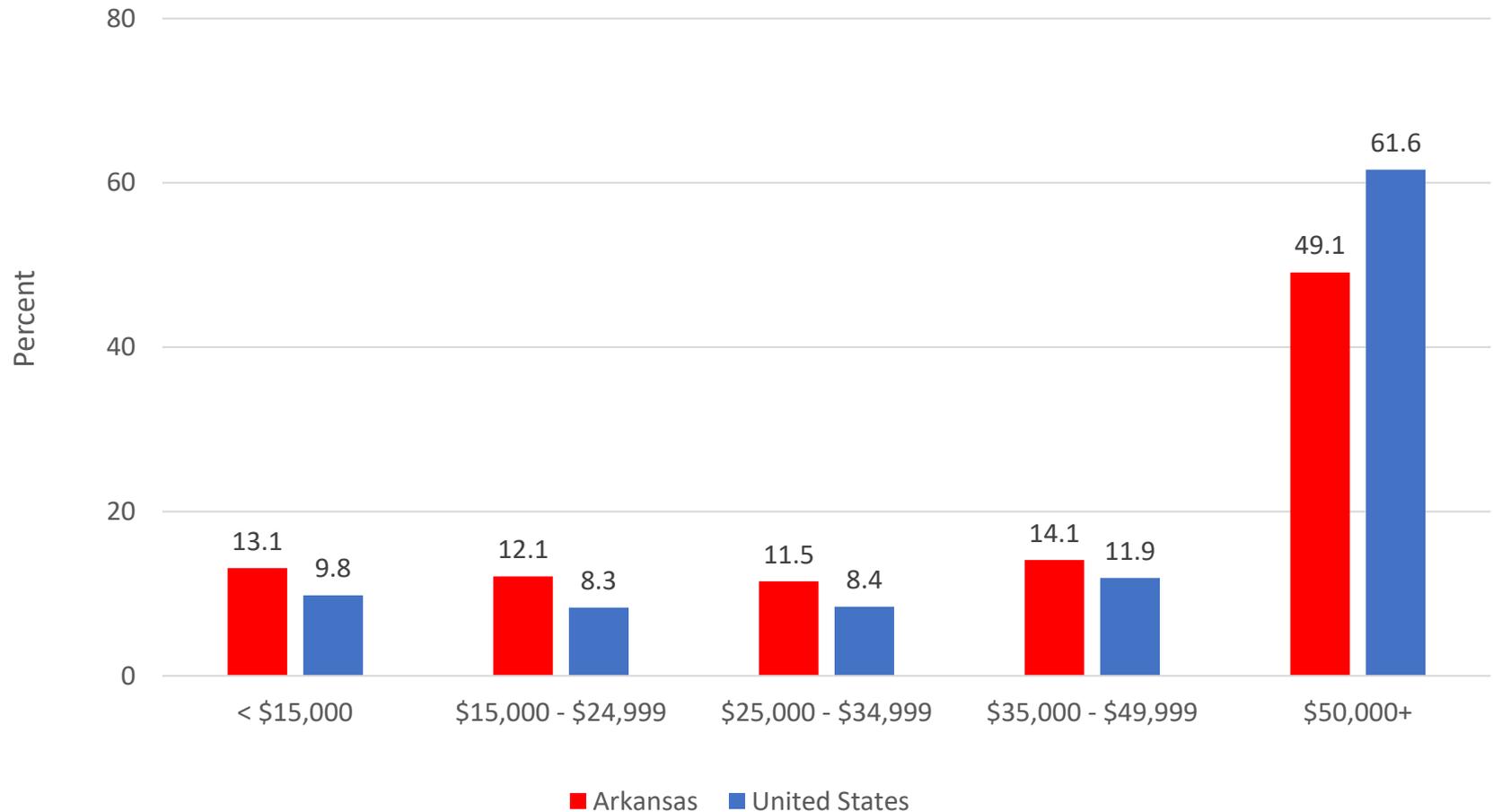
Educational Attainment Among Adults 25 Years and Older Arkansas and U.S. 2019*



Note: H.S. = High School and G.E.D. = General Educational Development Test.

Source: 2019 American Community Survey 1-Year Estimates, U.S. Census Bureau

Household Income Arkansas and U.S. 2019*



Source: 2019 American Community Survey 1-Year Estimates, U.S. Census Bureau

* Arkansas Number of Households: 1,163,647 ; U.S. Number of Households: 122,802,852

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Email your comments to Brandy Sutphin at brandy.sutphin@arkansas.gov